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ABSTRACT

The report presents the results of the first stage of research into proprietary schools and will be useful to policy makers of Massachusetts as it raises questions, clarifies issues, and compiles available data on the activities of proprietary and public schools in the State. An analysis of the role and activities of proprietary schools will contribute to an understanding of several research issues and policy needs. The questions raised are answered by the analysis of data gathered from students, graduates, and institutional questionnaires, by intensive case studies, and interviews with proprietary and public institutions. Section 1 presents an analysis of the development of interest in proprietary schools and the importance of raising questions about their role in the vocational education system. A review of other research and of the literature is discussed and implications for further research presented. Section 2 describes the initial efforts to quantitatively analyze the proprietary market and its effects on graduates and includes lists of schools and programs in Massachusetts. Section 3 presents available data on the scope and variety of proprietary schools and their relationship to public and non-profit programs. Section 4 provides an overview and summary of the report. (Author/EC)

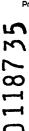
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George J Nolfi, President

March 1974

THE CONTEMPORARY ROLE OF PROPRIETARY INSTITUTIONS IN VOCATIONAL EDUCATION IN MASSACHUSETTS

Final Report of Stage I of a Two-Stage Research Project US DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

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LETTER OF TRANSMITTAL

Mrs. Mary Warner, Chairman
Massachusetts Advisory Council on Education
182 Tremont Street
Boston, Massachusetts 02111

Dear Mrs. Warner:

In mid-1973, Dr. Joseph Cronin, Secretary of Educational Affairs, and Professor John Dunlop, Harvard University Economics Department, discussed their mutual interest in proprietary schools and decided to initiate a research effort. Dr. Cronin was concerned with the need he perceived for developing a coordinated policy toward proprietary schools in the State of Massachusetts, one based on detailed and objective analysis. Professor Dunlop was interested in the role and activities of proprietary institutions from the theoretical perspective of a labor economist. In the fall of 1973, because of previous work Ms. Valerie Nelson, Professor Richard Freeman, and I had performed on the subject, we were approached to carry out a study which would meet these two interests. The study was begun in December, 1973.

This report presents the first stage of a two-stage research effort. Stage I has been funded jointly by the Advisory Council on Education and Professor Dunlop's research funds, with each source providing \$5,000. The report is not intended to present conclusions of research but to provide a base for the research of Stage II. Stage I represents about one-tenth of the total study effort.

During the course of Stage I we compiled available data on proprietary and independent schools and comparable programs in public schools and community colleges. We wish to thank Mr. Donald Carbone, Mr. Joseph DeRosa, and Mr. Owen Kittredge of the Department of Education for their assistance in providing data about programs and enrollments, and for their supportive attitude toward the study effort.

We wish to thank the members of the Advisory Committee to Stage I of the study who have been very helpful individually and collectively in discussing the Stage I report and the planned Stage II research effort in relation to state policy needs.

Finally, we wish also to express our appreciation to the various educational leaders throughout the State with whom we have spoken during the course of the first stage. Proprietary school directors and representatives of State education and manpower agencies have been particularly helpful in clarifying the issues to be addressed in policy and research.

Sincerely,



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FOREWORD

This report constitutes a beginning of what the Massachusetts Advisory Council on Education hopes will be a continuing analysis of the role and operations of proprietary institutions in Massachusetts education. There is a logical sequence for such analysis if the interests of citizens are to be best served. That sequence involved the first step in documenting the scope and variety of proprietary institutions in Massachusetts and the definition of research and policy concerns relevant to moving from questions of scope to questions of quality and public-private coordination. University Consultants, Inc., has accomplished this first step in a way that discloses the complexity and magnitude of the area under consideration.

Any precipitous action taken to seek a "guarantee" of quality in this complex area is apt to create as many problems as it solves. Yet progress toward an evaluation process that promotes a consistent and high level of proprietary service is an obvious need, a need well evidenced by the scope of the field and by the recent newspaper spotlighting of specific problems in proprietary operations. We believe that this report provided a foundation for continued research and the careful development of recommendations concerned with quality and coordination. We recommend the support of that continued research to our state educational boards and to the federal and private agencies that have a clear opportunity to provide a service that can benefit citizens of Massachusetts and all other states as well.

Ronald J. Fitzgerald Director of Research for the Massachusetts Advisory Council on Education

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INTRODUCTION AND OUTLINE OF THE STUDY

For many years the role of proprietary institutions in training students in husiness, trade and technical, cosmetology, health, and other areas has not been researched nor recognized. But the increasing government support of and student demand for vocational education and training, the search in traditional higher education for new ways of educating students, and the concern for protecting the student as consumer call for a greater understanding of the role and activities of proprietary schools.

This research effort grows out of and reflects two parallel interests; policy needs and research questions. On the one hand, the State of Massachusetts will increasingly consider proprietary schools in education and manpower policies: the 1202 Commissions to be set up this year require representation from proprietary schools; the Office of Manpower Affairs will make decisions about using funds under the new Comprehensive Employment and Training Act to support or not support students at proprietary schools (as in past programs); the proposed Massachusetts Open University will consider formal transfer and credit arrangements with non-degree-granting institutions; the Board of Higher Education will consider program approval for degreegranting institutions which may duplicate offerings of proprietary schools; the Department of Education will define and implement licensing procedures for proprietary schools; and finally, long-term policies will be discussed to improve the interaction of education and the labor market. The formulation of policies in these areas requires a greater understanding about proprietary schools than current research and theory can provide.

On the other hand, an analysis of the role and activities of proprietary schools will contribute to a better understanding of several current academic research issues: what is the role of profitmaking institutions in a mixed public/private sector such as education; how does the training market respond to needs of the labor market and the economy; how do students make decisions to train; and what is the role of training in social mobility and income distribution?

These two perspectives, policy and research, serve to define the kinds of questions addressed in this study. What do proprietary institutions do, in what subjects, with what kinds of students? In comparison, what do public and non-profit schools and colleges do? What happens to graduates of proprietary, public, and non-profit programs when they enter the labor market and over the long term? What are the objectives and goals of proprietary, public and non-profit schools, how do they operate, allocate funds, etc.? How do proprietary, public and non-profit institutions interact and how well do they individually and together serve the interests and needs of students and employers? These questions will be answered by the analysis of data gathered from student, graduate, and institutional questionnaires and by intensive case studies and interviews with proprietary and public institutions.

This report presents the results of the first stage of research into proprietary schools. It is not intended to present conclusions of research, but rather represents about one-tenth of the total study effort. The document, however, will be useful to policymakers in Massachusetts as it raises questions, clarifies issues, and brings together available data



on the activities of proprietary, non-profit and public schools in the State.

Stage I is organized in the following manner: Section I presents an analysis of the development of interest in proprietary schools and the importance of raising questions about their role in the vocational education system. A review of other research and of the literature is discussed and implications for further research presented. Section II describes the initial efforts to quantitatively analyze the proprietary market and its effects on graduates. Section III presents available data on the scope and variety of proprietary schools and their relationship to public and non-profit programs.

I.A. PROPRIETARY SCHOOLS: A NATIONAL PERSPECTIVE

In recent years interest among educators and policymakers has devoloped in the activities of proprietary schools -- small vocational or avocational educational institutions run for profit. As many as 10,000 to 20,000 of these schools operate across the country enrolling 5 - 6 million students in fields such as business skills, flight training, dance, automotive engineering, barbering and cooking. Despite high enrollments, until recently, little research has been directed to finding out what they do and how well, and most of the public does not even know what is meant by "proprietary" school.

The term "proprietary" is somewhat misleading; although initially most of these schools were owned solely by one person, currently 85% are either corporately owned, part of national chains, or owned by major national corporations. In spite of this change in ownership patterns, "proprietary" schools operate in much the same way as they have since they were first developed in business fields in the mid-nineteenth century. They typically are small (50-500 students), profit-oriented organizations specializing in training of one particular skill or avocation. Courses are generally organized in short, intensive modules and the format is more practical than academic in orientation. Classes are run at many hours to be convenient to the working person, and at graduation vocational proprietary schools usually award certificates or diplomas. Few grant degrees, although many offer A.A.-equivalent programs without the general education component and competencies gained by students are comparable. Since the reputation and hence the financial survival of the vocational proprietary schools depends on job placement of graduates, schools try to provide up-to-date training by maintaining close contact with employers in their fields and faculty are selected more for work experience than for academic background. About one-third of all students are in vocational schools, two-thirds in avocational schools. The majority of vocational students are in business and trade and technical schools and the majority of avocational students in dance and driving schools. There is great diversity in the quality of proprietary schools: the most reputable offer worthwhile training programs, but others practice deceptive advertising, charge excessive fees, and have low job placement rates.2

For many years, proprietary schools have operated outside of the formal and highly visible educational structure of degree-granting public and private high schools, community and junior colleges, and colleges. Any student choosing a proprietary school did so on his own, since few guidance counsellors recommended proprietary schools, and except for some licensing requirements, educators and government officials had little contact with these schools. Proprietary schools and large public educational systems were content to leave each other alone since by and large they were not in direct competition. Proprietary schools often functioned in fields where public systems did not have programs or simply did a better job than the local system. For example, proprietary schools were the first to teach typing in the 1880's and computer programming and keypunch skills in the 1960's. The only restrictions on proprietary



schools were licensing requirements in some states, having to do with financial soundness of the institution and not the quality of instruction. G.I. Bill and Vocational Rehabilitation benefits could go to students at proprietary schools, but there were no formal transfer arrangements into the public or private educational systems.

Over the last decade, however, competition has become more direct as the community colleges and vocational/technical institutes have been developed to offer more extensive programs in vocational and avocational fields. The laissez-faire policy toward proprietary schools has been questioned. Now educators and policy-makers are concerned about what the proper role of proprietary schools should be in the overall education and training system in this country. Should proprietary schools be left alone as in the past, should they be better utilized by direct government support or contracting, or should the student receive financial aid which he can take to any proprietary, private or public school? How should the student as consumer be protected from deceptive business practices and finally, should proprietary schools be included in statewide and nationwide educational planning efforts?

Answers to these questions bear on such fundamental issues as the proper role of private enterprise in education, the extent to which education should be vocationally-oriented, and what control the student or the professional educator should be given over decisions. The research of Stage II will provide some insights into these issues as well.

Sources of Interest in Proprietary Schools

Concern for the activities of proprietary schools and their proper role in the educational system has developed from a variety of sources described in detail below: a federal commitment to vocational education and manpower training, a financial squeeze in higher education and the need for greater diversity of offerings, FTC hearings into misleading advertising practices of proprietary schools and the need for consumer protection, and finally attempts of proprietary schools to increase access to federal funds or to maintain their market position in the face of expanding public programs. Most of the following discussion relates to vocational, not avocational, proprietary schools.

Federal Commitment to Vocational Education and Manpower Praining

In the early 1960's, the U.S. moved to strengthen its trade and technical training at sub-professional levels. Two major training initiatives were made which were relevant to proprietary schools: in 1962, the Manpower Development and Training Act with programs to be run through the Labor Department and the Department of Health, Education, and Welfare and in 1963, the Vocational Education Act (amended in 1968) with programs to be run through HEW. Initially, the focus of MDTA was to be on retraining of unemployed, displaced workers, but through the 1960's, the focus shifted to training of disadvantaged groups. The intent of the Vocational Education Act was to expand opportunities for training of all groups.



These two programs of training were designed by Congress to utilize the resources of proprietary schools where appropriate, yet there has been controversy over the extent to which they have or have not done so. Only the MDTA programs administered by the Labor Department utilized proprietary schools to any degree. In 1968, 20% of their training was carried out in proprietary schools with some citics, such as Chicago, as high as 50%. On the other hand, the Vocational Education Act programs administered through HEW have rarely gone to proprietary schools. Decision-making was left to state education officials who directed resources to existing public schools and new public regional vocational/technical institutes. In 1967, however, HEW contracted at the national level with business schools and trade and technical schools to provide training in 28 states.

The issue of whether or not to use proprietary schools in manpower/vocational education programs focussed attention in the late 1960's on the activities of these schools. Several studies, including those of Belitsky and O'Neill, advocated greater use of proprietary schools on the grounds that they were more cost-effective and innovative in providing training to the target clienteles of the two manpower/vocational education acts. Other studies such as by Sam Harris Associates showed that public programs were more cost effective for MDTA training. The adequacy of research to date to answer such questions will be reviewed in the following section.

Increased Emphasis on Vocational Education

While the MDTA and Vocational Education initiatives were being made, students and administrators in higher education institutions were also coming to feel that more vocational education should be provided. Pressures for a vocational or career education focus in the schools came from a variety of sources: again, the concern in the Labor Department for raising the level of technical competence in the labor force and from dissatisfaction of students about the falling value of a traditional college degree. As more and more high school graduates went on to college in general education, the labor market demand for college students failed to keep up with the supply. At the same time, high school graduates and college drop-outs were ill-prepared to take the technical jobs which were available.

The failure of the education system to meet the needs of the labor market at least in the short term was of concern to both students and manpower administrators. The Bureau of Labor Statistics in 1969 projected that only 20% of jobs would require a college degree in the 1980's and yet public systems continued to expand with traditional programs. Finally, college graduates began to have trouble finding jobs with a liberal arts degree and entering students began shifting to professional and vocational programs.

The focus in the past on general education had been sustained by an attitude of parents and educators that all students should aspire to a general education college degree. Curricula were designed for the 20 - 25% of high school students who would eventually graduate from college, and few good alternatives to the college preparatory program were provided



for others in high school. Community colleges were initially designed to transfer students into colleges, although most students did not complete a degree. The college degree was seen as the assurance to students and parents of a successful life and few wanted to limit their horizons to terminal vocational programs at the associate level. But the current realities of the job market seem to be a surplus in supply of college drop-outs or graduates from liberal arts programs and a shortage of middle-level technical, clerical and paraprofessional workers. Whether such an imbalance continues into the future and whether vocational education is the answer to labor market needs are both open to question.

To the extent that students and policymakers have come to see vocational education as an alternative to traditional college education, proprietary schools are becoming legitimate postsecondary options. Although community colleges themselves are moving into vocational and away from transfer subject areas, there is also concern at the national level that the resources of existing proprietary schools be utilized effectively before additional public money goes into expanding public institutions. The Higher Education Act Amendments of 1972 clearly state that proprietary schools which are accredited by an OE-recognized accrediting agency are elegible to be used by students under the Basic Opportunity Grants, NDSL, College Work Study, and other loan or grant systems. The major proprietary schools to be affected are accredited by the Association of Business Colleges and Schools, the National Association of Trade and Technical Schools, and the Cosmetology Accrediting Commission. These schools, however, represent only a fraction (about 1/10) of the total number of proprietary vocational schools and are possibly the best in their fields.

It was also determined in the Higher Education Amendments of 1972 that proprietary schools be included in statewide planning commissions (the 1202 commissions) which have been funded for the first time this year. Here again only accredited proprietary schools are to be included.

The development of federal and state policies in vocational education will be discussed in greater detail on pages I_{-16-32} .

The Need for Greater Diversity and the Financial Squeeze in Higher Education -- Can Private Enterprise Do a Better Job?

The late 1960's and early 1970's were a period of public disillusionment in higher education and an increasing unwillingness on the part of taxpayers to support unchecked growth of public systems at the postsecondary level. The disillusionment came from a variety of sources -the fact that college graduates were no longer assured good jobs, the reaction to student protests over Vietnam, and a feeling that institutions were not meeting the variety of needs and interests of students.

The greatest indication of dissatisfaction may be taken as the high drop-out rates (50% or more) from many colleges and universities and community colleges. 9 By and large the problem was analyzed by educators as a lack of diversity and innovativeness in the system. As greater numbers of students entered college, they continued to receive a watered-



down version of the education offered at the elite colleges and universities -- an education dominated by discipline-oriented faculty often more interested in their own professional advancement than in teaching and more in narrow, academic issues than in broader social issues or vocational fields relevant to the new student clienteles. The community colleges with faculty straight out of discipline-oriented graduate programs concentrated on offering transfer options rather than setting alternative patterns of their own. Many of the new students were not interested in and could not cope with the academically-oriented work offered to them and sooner or later dropped out of college.

In the early 70's, educators and policymakers began to call for greater diversity in types of institutions and greater attempts to meet the needs of various kinds of new students. At the same time, costs were rising and the public was unwilling to continue to support a system which they found lacking.

Arising from this public disillusionment over the performance of public and private non-profit higher education came the suggestion that perhaps private enterprises could do a better job at meeting the needs of students as consumers and could do it at lower cost. Interest was fostered in such alternatives as performance contracting with private firms, voucher plans to give greater choice to the individual student or parent and greater support for proprietary schools.

These initiatives were based on the hypothesis that profit incentives might lead to the same high quality and innovativeness of response in education as in technology-based industries in the private market, and that accountability to a market might keep costs down. The encouragement of private enterprise in education came from the Office of Education in the Johnson Administration as well as from Republican House and Senate members. Gerald Ford in 1970 stated, "I have long been a critic of our nation's public schools because I have never felt that they were achieving even a reasonable degree of their potential. One reason 101 this failure is lack of competition ... Private trade and technical schools are a natural development in a private enterprise economy which is demanding the personnel needed to fill certain jobs in growth fields and is insisting upon excellence." 10

Although the experiments in performance contracting were seen as a failure by 1973, interest in the activities of proprietary schools as profit-making institutions remains. The National Institute of Education and the Department of Health, Education and Welfare continue to support research into their activities as an alternative to public and non-profit systems.

Proprietary schools have also benefitted from the current financial squeeze in higher education as a whole. The philosophy which urges a halt in the expansion of public systems and greater utilization of private, non-profit institutions also applies to proprietary schools. The argument has two sides: first, that public programs should not duplicate already existing programs in the private or proprietary sector and second, that students should be supported (rather than institutions) so that they may have maximum choice among alternatives. Thus, Pennsylvania's, New York's,



and the proposed Massachusetts' open learning systems incorporate proprietary schools as community resources not to be duplicated by new public programs. 12 The Nixon Administration's emphasis on student vs. institutional aid has also benefitted the accredited proprietary schools.

FTC Pearings and Consumer Protection

Although manpower planners, students and policymakers with a broad national perspective were encouraging vocational programs and alternatives to the liberal arts curriculum, with the resulting attention on the activities of proprietary schools, other groups were resisting the notion of profit-making enterprises in education. State education officials, for example, rarely utilized proprietary schools under the Vocational Education programs.

Another issue arose in 1969 over the failure to achieve accreditation by a profit-making institution, Marjorie Webster Junior College. The school sued the Middle States Association and lost in the court of appeals to arguments by the Association that "these two goals -- that of the profit organization to return a profit on capital and that of an educational organization to overcome the ignorance of students -- are not compatible ..."

The issue again arose when the Internal Revenue Service ruled in 1973 that a collegiate regional accrediting agency might lose its tax exempt status if it admitted proprietary schools.

There also developed some concern for whether proprietary schools engage in deceptive and misleading advertising. In 1970, public hearings were begun by the Federal Trade Commission examining misrepresentation by a variety of schools about placement opportunities and accreditation, unfair cancellation and refund policies, and provision of low quality training. In July, 1971, the Washington Post carried several articles citing deceptive practices of schools and in 1972 the FTC published a set of "Guides for Private Vocational and Home Study Schools." 14.

Concern of Proprietary Schools to Maintain their Market Position

The concerns of proprietary schools have also been better articulated in the last few years. Although the Association of Business Colleges and Schools has been in operation many years, the National Association of Trade and Technical Schools was formed only in 1965. The efforts of both of these organizations have been instrumental in the inclusion of the accredited proprietary schools in the Higher Education Amendments of 1972 and other Congressional initiatives. These associations have generally supported the programs of student aid over those of institutional aid or contracting. Only the accredited schools represented in these organizations are covered by the Higher Education Amendments.

In Massachusetts, proprietary schools, both accredited and non-accredited, have in the last year organized partly to protest what they see as the expansion of community colleges and regional vocational/technical institutes into their territories. A number of business schools have closed over the last several years from competition from public programs and the fear is that new public programs in other trade and technical areas and in Boston will force the closing of more proprietary schools unable to compete with low public tuitions. 15

Both these national and State level organizations focus attention on the interrelationships of proprietary and public programs. At a time when public higher education is under financial constraints, policy-makers are also more responsive to the concerns of proprietary schools expressed by these groups and to the notion that they may provide services to students at less cost than new public programs.

The Inadequacy of Past Research to Meet Policy Needs

At a time when major policy issues were being discussed, very little was known about the actual workings of proprietary schools. Estimates of numbers of schools and students are just that and no more; state departments of education do not even maintain comprehensive lists of vocational and avocational schools.

An assessment of the role of proprietary schools in education and training is not possible on the basis of research to date and thus recommendations for policy changes are often grounded in speculation and not fact. Those advocating greater participation of proprietary schools cite the quality of training in the accredited business and trade and technical schools while those wary of profit-making in education cite the FTC findings of deceptive practices.

In the following section, a review of the literature and research to date and the needs for further research are discussed.



Footnotes

- 1. Fulton, Richard A., "Proprietary Schools", Encyclopedia of Educational Research, 4th Edition, (MacMillan Company, New York, 1969) p. 1026.
- 2. For general characteristics of proprietary schools, see:
 Belitsky, A. Harvey, Private Vocational Schools and Their Students
 (Schenkman Publishing Co., Cambridge, Mass., 1969)
- 3. Fulton, op. cit. and Nolfi, c. and V. Nelson.
- 4. Belitsky, op. cit. p. 135.
- 5. Fulton, Richard A. and Eugene W. "Evaluation of Programs at Proprietary Business Schools", National Business Education Yearbook, No. 7, 1969, pp. 103-118.
- 6. Belitsky, op. cit. and O'Neill, Dave M., The Federal Government and Manpower (American Enterprise Institute for Public Policy Research, Washington, D.C., 1973).
- 7. Sam Harris Associates, "A Comparative Study of NDTA Institutional Training in Community Colleges, Public Vocational Schools and Private Institutions", Washington, D.C., May 15, 1973.
- 8. College Educated Workers, 1968-80 (BLS Bulletin 1676), a study of supply and demand for college graduates and Occupational Manpower and Training Needs (BLS Bulletin 1701), showing the number of total annual openings over the 1968-80 period and available data on the number of workers currently being trained.
- 9. Peport on Higher Education, U.S. Dept of 1984, June 1971.
- 10. Ford, Gerald R., address to National Association of Trade and Tochnical Schools, June 19, 1970, (Congressional Record, August 12, 1970, Vol. 116, No. 139)
- 11. Elliott, Lloyd II. "Education at a Profit?" (Congressional Record, Aug 12, 1970, Vol. 116, No. 27)
- 12. Nolfi, George and V. Nelson "Relationships to the Open Learning Network of Non-Degree-Granting Providers of Postsecondary Level Instructional Services", Report to Governor's Task Force on the Open University, (Boston, Mass., January 1974).
- 13. Wilms, Wellford, "A New Look at Proprietary Schools", Change Summer 1973, p. 6.
- 14. "Guides for Private Vocational and Home Study Schools", Fedoral Trade Commission, (Washington, D.C. May 16, 1972).
- 15. Nolfi, G. and V. Nelson, Strengthening the Alternative Postsecondary Education System: Contuing & Part-Time Study in Massachusetts, (University Consultants, Inc., Cambridge, 1973.



I.B. A LITERATURE REVIEW: RESEARCH QUESTIONS AND POLICY NEEDS

To the extent that federal and state programs have developed which affect proprietary institutions, the information and research needs of government policymakers have increased over the last decade. As federal funds have gone into expanding programs of manpower and vocational training under the MDTA and under Vocational Education Acts, and student assistance loans and grants under the Higher Education Acts and as state funds have gone into developing extensive public higher educational systems, questions have been raised of the proper consideration and treatment of proprietary schools. In terms of resource allocation: should they be contracted with for specific programs, should their students be supported by government grants or loans, should attempts be made not to duplicate their services in new public offerings? In terms of competency assessments: should proprietary schools grant degrees, should course work be creditable in degree-granting institutions, how should proprietary schools be accredited? Finally, in a time of increased spending in the area of vocational education, is strict regulation required on the activities of such profit-making institutions?

Public support of proprietary schools or students could not be justified until more was known about their offerings and the value of training. Thus, several major questions have been raised about the sector: what do proprietary institutions do, in what subjects, with what students, and how well? Are they more or less cost-effective than public programs or do costs reflect differences in educational goals, quality, selective admissions criteria, etc.? Who pays, and who benefits from their operation?

These policy concerns stimulated a variety of analyses of the activities of proprietary institutions: ranging from the investigative articles of the <u>Mashington Post</u> in citing deceptive advertising practices (at the time of this report the <u>Boston Globe</u> is also investigating certain proprietary schools), through speeches, position papers, and testimony in public hearings, and finally to surveys and research projects. The general positions of various groups have been alluded to in the previous section.

One view would have it that proprietary schools, spurred by market competition, operate efficiently and innovatively to meet the changing and diverse training needs of students. As such, they provide a valuable service to a worker investing in his skills and to the economy in providing trained manpower. Public and non-profit schools would, by contrast, be wasteful and unresponsive in their bureaucratic functioning.

Another view would have it that proprietary schools exist to a large extent by attracting naive and impressionable young people and by promising jobs they cannot possibly get. The owners reap profits from the high price, low quality programs, but students fail to achieve their goals.

The purpose of this section is to lay out the results of several major research studies which have been conducted or are in progress sheading.



light on various aspects of the operations of proprietary schools and their relationships to students, the labor market, the public schools, etc. Finally, questions still remaining and issues unresolved will be identified.

Major Studies

The major research studies are the following:

In 1969, a labor economist, A. Harvey Belitsky, published a study entitled Private Vocational Schools and Their Students: Limited Objectives, Unlimited Opportunities. The research was focused mainly around an institutional questionnaire sent in 1967 to trade and technical schools and most of the analyses concerned only 5% of those schools, the members of NATTS (National Association of Trade and Technical Schools). Belitsky recommended the flexibility of operation and organization of proprietary schools as being appropriate to meeting the needs of the disadvantaged student now supported by federal programs. Examples are cited of flexible admissions criteria, programs offered at night and in convenient locations, changes in curriculum to meet employer needs, and special adaptations of short-term, individualized courses to motivate the non-academic or disadvantaged student.

Belitsky explained this flexibility of proprietary schools as a necessity to survive in the marketplace: revenue is fees directly from the client, the student, and in order to continue to attract clients schools must provide suitable training in a changing job market. The "quest for profits serves to stimulate continuous changes in operation and instruction." The owner has discretion to implement changes quickly and without bureaucratic roadblocks, and finances new programs out of retained earnings.

Belitsky explained the continued survival of proprietary schools in the face of expanding lower-priced public programs by both their training in fields not provided in public schools and by offering superior courses in the same fields. Proprietary schools fill the gaps between public education and training programs, industry training, and union apprenticeships.

Belitsky's study has been used as the primary reference on proprietary schools. However, much of his case for proprietary schools is suggestive and has not been researched in depth. The study is also based on an analysis of presumably the best schools, those accredited by NATTS, and should not be generalized across all schools. The performance of proprietary schools is not proven; in fact, the evidence presented from the Specialty Oriented Student Research Program at University of Iowa indicates as many as 40% of graduates six years out of proprietary schools have earnings at the same or lower levels as before their training.

In June 1972, a study was released by Edward Erickson and others at ICF, Inc. as prepared for the Assistant Secretary for Planning and Evaluation at HEW: Proprietary Business Schools and Community Colleges: Resource Allocation, Student Needs, and Federal Policies.² This study was based



on interviews at 20 private business schools and two community colleges and because the study was conducted during a short period of time, the conclusions are suggested as tentative. In addition to time constraints, the interviewing was limited to proprietary schools which were "well established, with excellent reputations, and sound management."

At least in the business fields, Erickson, et al. found community colleges to be damaging competition in the short, but not in the long term. They, too, found that the profit motive stimulates continuous changes in operation and instruction at proprietary schools while community colleges spread resources too thin to develop "sharply-focussed and effective" curriculum. Community colleges are under pressure "to be all things good to all people" and suffer from "conflicting and diverse missions." Community colleges also have an open door admissions policy and many of their students have not yet made up their minds about what they want to study. Proprietary students choose proprietary schools over public programs for 1) their superior placement record, 2) job-specific training, and 3) a shorter time to completion. Figures were cited for graduates of 100 accredited business and technical programs: 59% would enroll in the school if they were facing the choice again, 81% are in training-related jobs and 70% are very satisfied or satisfied with their current jobs.

In spite of findings favorable to proprietary schools, this study prescribed no major federal initiatives beyond experimental joint ventures of proprietary schools with other postsecondary institutions and with private industry and increased use of proprietary schools under the MDTA programs. Admitting the limited nature of the study, further research analysis was recommended on safeguards for quality control, the effects of Federal policies on proprietary and public education, and comparisons of private and public programs.

In November of 1972, a study by Jean Wolman and others at the American Institutes for Pesearch in Behavioral Sciences was released for the Office of Program Planning and Evaluation of the Office of Education: A Comparative Study of Proprietary and Non-Proprietary Vocational Training Programs. The study was to address differences in proprietary and non-proprietary schools and students, and in the employment gains of their graduates. Four occupational fields were chosen where comparable courses are given in proprietary and non-proprietary schools: office, computer, health, and technical areas, and four cities were chosen: Atlanta, Chicago, Rochester and San Francisco. Surveys were conducted of institutions, students, and alumni.

The amount of data gathered was great and there was the potential for good analysis. But, a major problem in all of the study's comparisons of schools, students and graduates is the combination of private non-profit schools and public schools into one category: non-proprietary. In fact, many non-profit schools in non-health areas were started as proprietary schools and are more likely to operate like proprietary schools than like public schools. Although directors of non-profit schools may not benefit directly from increased revenues, the schools depend on student revenues and still must cater to the market of stu-



dents in ways that state-subsidized schools do not. Both proprietary and non-profit schools are members of the business (AICS) and trade and technical (NATTS) associations.

With this restriction in mind, the conclusions of the study were:

1) Programs in both proprietary and non-proprietary schools are considered effective in providing students with marketable skills, 2) The four occupational areas differ markedly in cost-benefit of training, clientele, and types. of programs offered, 3) Non-proprietary school graduates gain more from training than proprietary school graduates (but this is explained by the fact that non-proprietary students were earning less than proprietary students before training and about the same after training), 4) Accredited and chain schools are no more effective in placing graduates than non-accredited or non-chain schools, and 5) Proprietary and non-proprietary schools differ in operations but attract similar kinds of students.

Resulting recommendations are that both proprietary and non-proprietary schools be examined for evidence of benefits and costs of training before federal funds are allocated; "no institution should be discriminated against on the basis of ownership status." In addition, regulation of standards in advertising, recruiting, refunding, and other policies should be strict.

In 1973, the first of two stages of a study by Wellford Wilms at the Berkeley Center for Research and Development in Higher Education was released entitled Profitmaking and Education. The first stage was an analysis of students in 50 randomly selected proprietary schools and public community colleges or technical institutes in San Francisco, Boston, Chicago, and Miami. Students were selected in programs to train accountants, computer programmers, dental assistants, electronic technicians, secretaries, and cosmetologists. The second stage now underway is to assess the effectiveness of proprietary vs. public schools by following the success of graduates in the labor market, while controlling for differences between the two groups in socioeconomic background and ability.

Wilms found that proprietary school students as compared to public school students are: more likely to be high school drop-outs, from a general or vocational program rather than a college preparatory program in high school, of minority race, and have lower verbal skills. Socio-economic backgrounds and motivation for job achievement are similar. In spite of differences in academic background and skills, students in proprietary and public programs expect the same employment gains from training.

A number of other research efforts have been undertaken which shed light on various aspects of proprietary schools: David O'Neill (1970) found that proprietary schools were more cost-effective than in-house Navy training programs for electronic technicians. He recommends greater experimentation by the Navy in contracting out training programs from private schools. In 1973, Sam Harris Associates, Ltd. compared the cost-effectiveness of MDTA programs in public community colleges, public vocational schools, and proprietary schools in placing graduates



in higher wage jobs. 6 They found community colleges to be the most cost-effective for MDTA contracting; but attributed this to the fact that the public colleges and schools absorb much of the overhead costs of the programs while proprietary schools charge full cost including overhead. Richard Freeman (1973) used data on 45-49 year old men to compare the effects of formal schooling with those of proprietary school training on earnings. 7 He found that the private rates of return from the two types of schools are roughly equal; but, since the public contributes less support to proprietary schools or students, the rate of return to society is higher for proprietary school training than formal schooling. The comparison in effect, however, is between academic training and vocational training in a business college or technical school, since most formal schooling programs were academic and not vocational in nature at the time these men were in school. The more relevant comparison yet to be made is between vocational programs in public community colleges or institutes vs. those in proprietary schools.

Contributions of Research and Issues Unresolved

The research to date calls attention to the activities of proprietary schools, cites characteristics of their behavior, and documents their legitimacy in certain fields of training in adding to a students's earning capacity. This research, however, only begins to address some of the fundamental questions about the operations of proprietary schools.

Questions still to be addressed are:

1) What is the role of proprietary schools in vocational and avocational training? While some studies focussed on the best business or trade schools and others on comparisons of particular occupational programs in the proprietary and public sector, none have documented the total scope and variety of proprietary schools in a given geographic service area or the relationships of the offerings of public programs, industry training, or the unions to the mix of training fields of proprietary schools which continue to operate.

A more detailed analysis is required of the proprietary school sector as a whole including accredited and non-accredited, vocational and avocational schools. Why do proprietary schools operate in some fields and not in others? What is the relationship of what they offer to the programs of public and non-profit schools? Do gaps or costly duplication of programs develop? What happens when a new public program opens? How have the proprietary, non-profit, and public sectors heen affected by the growth in demand for vocational training and for avocational, leisure courses? by changes in industrial composition? by changes in licensing criteria? by increased accessibility of students to federal grants and loans?

2) What is the nature of the process of proprietary training? Are there differences in training among types of schools -- are there only differences in scheduling as cited in several studies or are there more fundamental differences in training techniques? What kinds of innovations in programs do public, non-profit, and proprietary schools make?



- 3) How do proprietary schools operate as business enterprises? How do they allocate funds? Do their programs cost less than public or non-profit programs, and if so, why? What do differences in spending patterns reflect, differences in quality, in goals, or in efficiency of operation? What is the significance of the fact that most proprietary schools are small and specialized, while public schools are large and comprehensive? Although previous research suggests significant differences in operations by type of school, no direct cost and revenue comparisons have yet been made.
- 4) What kind of person goes to a proprietary school, for what reasons, and does he benefit from the programs? Benefits seem to vary by type of training and thus it is important to consider a wider range of schools in further research. Benefits in office or technical programs which have been analyzed may not be matched by real estate, flight, or truck driving schools, for example. Why does a student choose a public program? How well-informed are students about their choices?
- 5) How do employers value proprietary school training? as compared to public or non-profit school training? Although the placement functions of proprietary schools have been cited as attractive to potential students, the exact nature of employer/school relationships have not been traced. In what ways do proprietary and public school directors keep in touch with employers and their needs and how do these needs affect programs? How do employers feel about proprietary vs. non-profit or public training?
- 6) What is the policy context in which proprietary schools operate? What kinds of programs academic, vocational, avocational should be given public support? What kinds of criteria are appropriate in making decisions about institutional or student support? How much should be left to the private market and how much to professional judgement?

While such issues have been raised in past research, the extent to which policy changes are realistic has not been discussed. What recommendations are feasible in the light of existing patterns of enrollment, the educational policy-making process, trends in such educational innovations as open learning, and federal and state budget priorities?

Directions for Research

In order to answer the above questions, major departures have to be made from past research: a) all types of proprietary schools must be included in the analysis, b) specific relationships of these schools to public school, employer-based and union training must be traced, c) employers' views must be sought, d) data on finances and operating patterns must be collected and analyzed, e) direct comparisons must be made in the training process across the three categories of proprietary, non-profit, and public schools, and f) the public policy context must be explicitly considered in all recommendations.



FOOTNOTES

- 1. Belitsky, A. Harvey, <u>Private Vocational Schools and Their Students</u> (Schenkman Publishing Co., Cambridge, Mass., 1969).
- 2. Erickson, Edward W., Proprietary Business Schools and Community Colleges: Resource Allocation, Student Needs, and Federal Policies (ICF Incorporated, Washington, D.C., June 10, 1972).
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I.C. PROPRIETARY SCHOOLS AND THE VOCATIONAL EDUCATION SYSTEM

The purpose of this section is to view the activities and role of proprietary institutions as a part of a wider system of vocational education, particularly in Massachusetts. A mix of public, private non-profit and profitmaking institutions meet the training needs of students with historical patterns of subsidies and incentives in some fields and not in others. It is now a time when federal and state government policies of subsidization of public institutions and regulation of others is open to question. Options are considered such as: should students at proprietary schools be eligible for general student aid programs, should training programs contract with proprietary schools as well as public agencies and schools for services, should public schools teach courses already offered at proprietary schools? To some extent these questions can be viewed from the larger perspective of what should be the role of private enterprise in education.

New policies will be determined by the public objectives for the operation of the vocational education system, and the extent to which the system fails to meet those objectives and government intervention is needed to influence the system. Policies will be designed on the basis of specific tools of policy available, and the way in which students and various types of institutions will respond to such initiatives. Finally, agencies will be interpreting the public interest from different perspectives and may in practice diverge in their policies toward institutions.

In this section, the objectives of public policy in vocational education in the past are outlined and alternative strategies considered for the future. No specific recommendations will be made, however, since their formulation will depend on the analysis of proprietary schools and other public or non-profit schools stemming from the research of Stage. II.

THE VOCATIONAL EDUCATION SYSTEM

Today people invest many years and substantial resources in formal education and training to prepare for employment. In between the general education received by all who attend school until the legal age minimum of 16 and the specific training which employees go through on the job is a wide range of education and training which will be valuable in the performance of specific jobs. To the extent that employers' requirements for prior training and evidence of skills increased and/or workers in a tight labor market perceived competitive advantages from having training, then the demand for training has increased over time. After high school most people now go on to college or some other form of training before taking a job and often will go back to school in their late twenties or thirties to retool or upgrade skills.



Demand for specific forms of education and training will vary with the job payoff in the relevant occuaptions and the costs incurred while training: costs of both time off the job market and in direct costs of training. In theory a potential worker will consider the benefits of training on his job prospects (income, stability, promotion, etc.) and the costs of training (foregone earnings, tuition); and given constraints of availability of funds, personal preferences for certain jobs, and uncertainty, will choose to undertake one form of training or another. If the returns to training are low he may choose to invest instead in physical capital, or not at all.

The vocational education system is a particularly important sector of the economy: on the one hand it provides opportunities for investment in skills and affects the careers of many individuals and on the other hand it affects the ability of the labor market to adjust to changing skill requirements. If the training market were functioning perfectly, then shifts in the job market such as increasing skill requirements in certain occupations or shortages of workers in other occupations would raise wages in those occupations. This would raise the benefits of training in those skills and if such training is provided at reasonable costs, then enough workers will seek training to alleviate the job shortages in the economy.

A wide variety of institutions provide education which is valuable on the job: public and private colleges and universities, community colleges, proprietary and non-profit schools, the military, and company schools. The market is determined by the training requirements of the job market, the perceptions of workers for a competitive advantage in one form of training or another, relationships to other goals of each type of institution, and historical development of patterns of government support, professional control, etc.

Vocational education typically refers to a segment of this market of job-related education which is below the bachelor's degree level. Although college or graduate general education may be training for professional or managerial jobs and a requirement for hiring, few educators think of this as vocational. For the purposes of this discussion, vocational education will refer to job-related courses for beyond the high school diploma level, but less than the the college degree level. Such training leads to trade, clerical, and technical jobs and it is in these sub-professional areas that proprietary schools have typically operated. Vocational education is offered extensively in secondary schools, but these programs are generally at lower skill levels and will not be directly compared to those offered for the high school graduate.

Vocational education has always been secondary to general education in the public and non-profit institutions of education and until the 1960's had received little in the way of government support or intervention. Professional educators at elementary, secondary, and college levels have generally preferred to see students taught academic skills and a sense of culture, citizenship and scholarship rather than job skills. Although high schools for many years have had vocational programs they have been characterized in reports such as Work in America as low quality and designed for the low achiever. Only in the last 10-15 years have



community colleges and public technical institutes been developed with post-high school vocational programs.

Thus, vocational education in the past in public and private non-profit educational institutions has been limited. There was clearly a need for classroom training, however, since the private sector responded with a variety of programs. In 1970, 50% of white men 45-49 indicated having taken formal occupational training outside of college and in the following settings: proprietary schools, company schools, union appronticeships, and in the military.²

•	% with training	Average months of training
Total with Occupational Training. Outside Colleges or Community		
Colleges	50%*	19.6
Business College/Technical Institute	17%	17.6
Company Schools (6 weeks or more)	10%	9.1
Voc/Tech Apprenticeship	19%	16.8
General Courses	10%	13.0
Armed Forces	17%	14.1

*The total number with some training is less than the sum of the column because many go through more than one program.

In order to place current policy questions in perspective it is helpful to review the broad outlines of the development of education and training institutions in this country. In the early 1800's most training still took place in the home or in apprenticeships: the elementary schools and colleges alike were oriented to academic work. By the middle of the century a training market was being formed to meet the skill needs of commercial manufacturing development: at the college level the federal government was beginning to support education in the land-grant universities to improve agricultural production and mechanics. However, Grant Venn has said, "The colleges blazed the vocational trail, but as they advanced the level of their work into highly skilled and professional areas, they left a vacuum in the field of middle-level vocational preparation."3 Into this vacuum came small proprietary schools with programs particularly in business and clerical fields. By 1897, 71,000 business (secretarial, accounting) students were enrolled in proprietary schools compared to 5,800 in colleges and universities. In the following 20-30 years proprietary schools in trade and technical fields began to develop as well, while educators debated but took little action to support vocational education in the public schools.

Until 10 years ago this pattern was reinforced: government money was invested heavily in general and professional education at the elementary, secondary, college and graduate level, while vocational training was left largely to the private sector. While much public debate and extensive subsidization was focussed on higher education, the private



postsecondary (less than B.A.) vocational education market functioned largely free from any government or public attention, regulation, or financial support. Vocational Rehabilitation funds and G.I. Bill payments went to proprietary school students, but no direct financial support was given to either proprietary school or industry programs. By and large they were left alone: many states had licensing requirements but they were intended to insure sound financial practices rather than to influence the type or quality of vocational education offered. As a result, students in proprietary schools have been subsidized to far less a degree than students in academic or professional programs in colleges and universities.

In the past 10 years, however, federal and state governments have significantly increased their participation and intervention in the vocational education market. Interest in the functioning of this market comes from two major sources: manpower planners and training directors of programs for the unemployed and disadvantaged and education professionals at the secondary and postsecondary level. Federal and state support for vocational education was primarily directed towards the development and expansion of programs in the public schools and colleges, however, this policy of direct categorical support to public institutions has been questioned.

In the following pages, the development of specific federal and Massachusetts policies in vocational education will be discussed. By examining specific acts and stated purposes, the objectives for and means by which policy-makers at both levels sought to influence the system will be revealed. Finally, policy for vocational education and proprietary schools will be placed in the context of increasing disillusionment with education in general and the consideration of alternatives to public systems.

PUBLIC POLICY IN VOCATIONAL EDUCATION

Federal and state governments have the following broadly-defined interests in the performance of the vocational education system: that opportunities by provided for youth and adults to obtain skills which will bring them increased earnings and job security; that equality of opportunity for training be provided to all groups in the population-by income and sex; that manpower needs be met for trained workers (contribute to economic development, alleviate unemployment, aid disadvantaged groups to participate in the labor market); that indirectly training of workers will contribute to a more stable citizenry. However, no direct (but some indirect) contributions are expected to cultural or academic development.

Covernment programs have developed in particular over the last ten years to subsidize and provide a set of incentives in the system in response to perceived failures in the system as it was developed. Federal and Massachusetts initiatives will be discussed with a view to discerning public intent. They are divided into two sections, 1) vocational education and 2) manpower programs, since jurisdiction over policies comes mainly from two historically distinctive and at times conflicting agencies: HEW and the Department of Labor at the Federal



level and those agencies which fall within the jurisdiction of the Office of Educational Affairs and the Office of Manpower Affairs at the State level. One group has primarily the perspective of meeting the educational needs of students and is dominated by professional educators, the other has primarily the perspective of increasing skills of workers for employment and meeting the training needs of the economy.

Federal Initiatives in Vocational Education

Federal intervention in vocational education over the last decade has primarily been in the nature of stimulating general expansion of programs in the public schools, institutes, and community colleges and expansion of programs in specific fields such as health and science. Very little regard was given to supporting or providing incentives to private, non-profit or proprietary schools. Vocational education benefitted from general public satisfaction and policy of support for growth of education programs as a whole. Over the last few years policy initiatives have related to other issues: equality of opportunity and innovation and reform. In this context, alternatives to continued support of public systems are considered, along with possible roles for proprietary schools.

1917-1963

Following 20-30 years of debate among educators about the proper role of vocational education in secondary school, the Smith-Hughes Act was passed in 1917 for grants to states to support vocational education below the college level. Funds were to go to salaries and training of teachers of agricultural, trade, home economics, and industrial subjects. In 1946, the George-Barden Act was passed for support of agricultural education. Funds were given out as matching grants to states which contributed their own share and could be used at their own discretion for administration, guidance, and counselling as well as salaries of teachers. In 1944, the G.I. Bill of Rights was passed with education and training benefits which would be used at accredited colleges and universities and at V.A. - approved proprietary schools. In 1956 a Health Amendment Act to George-Barden provided funds for training of nurses, technicians, and supervisors. In reaction to Sputnik, the National Defense Education Act was passed in 1958 to improve the teaching of science, mathematics and languages at all grade levels.5

1963-1974

Although several acts had been passed which supported vocational education, the level of federal funding amounted to only \$55 million (not including the G.I. Bill). Following recommendations by a National Advisory Council on Vocational Education named by President Kennedy, a major expansion of vocational education was encouraged by the passage of the Vocational Act of 1963. Programs were funded in 1965 and federal spending rose to \$157 million. By 1973 spending directed to vocational education explicitly has risen to \$606 million.



University Consultants, Inc.

The Vocational Education Act of 1963 was a major initiative with intent to "modernize and redirect the entire vocational system, put resources within reach of all communities, and offer training for job entry or career advancement in virtually every occupation below the professional or 4-year degree level." Over the following years legislation provided funds for existing programs, as well as for construction and expansion of area vocational schools, but left discretion to the states for developing facilities, curriculum, research and training.

Federal funding was designed to stimulate state spending in vocational education, not to finance entire programs. In 1969 the federal contribution to vocational education was about 11% of the total federal-state-local spending. The commitment to vocational education had some visible signs of success: from 1965 to 1969 the number of regional vocational technical schools increased from 405 to 1,303 total enrollments from 5,430,611 to 7,979,366 with postsecondary enrollments from 207,201 to 706,085.8

..In 1968 Amendments to the Act focussed funding more specifically on postsecondary programs, work study, adults, and persons with special needs ("persons who had completed or left high school, persons in the labor market who needed training or retraining to achieve job stability or advancement, and the handicapped and disadvantaged"). State plans for use of resources were also required.

Although states could technically contract with non-public institutions under the Act, few did. In 1969 only 29 of 18,492 programs were under contract in private schools or community agencies. In the 1968 Amendments specific reference was made to the discretion of state boards of education to contract for training in accredited private trade schools, provided that there are no state laws prohibiting such contracting. One deterrent to utilization of proprietary schools, however, has been that while federal and state funds might be used for contracting with proprietary schools, they would not be matched by local funds. Total funds available would thus be less if proprietary schools were used. Several grant and loan programs were all also made available to students at accredited proprietary schools.

Over the last few years, the Nixon administration has pushed for a changing role of the federal government in education. The 1975 Budget claims that major responsibility for education should rest with the states, while federal policies should be focussed on 1) equalizing educational opportunity through loans and grants and 2) stimulating reform and innovation. It In addition the budget proposes consolidation of funding to states to provide greater flexibility at the state policy level. For example, much of the funding which has been allocated directly to secondary, higher, or adult vocational education would be consolidated into one vocational education grant to be allocated among levels by each state individually.

The Higher Education Amendments (to Act of 1965) began an important redirection of resources away from direct institutional aid and into student grants and loans. The Amendments also redefined "postsecondary" education to include a wider range of activities than "higher" education. In particular, accredited proprietary school students are now eligible for the major federal grant and loan programs and proprietary school representatives



must be included on statewide planning commissions. The rationale behind the formation of such commissions is to some extent to plan and coordinate the provision of public, private and proprietary postsecondary education. 12 These commissions will be funded for the first time this year.

Finally, vocational education as a whole has been given a major boost by a large-scale attempt to encourage career education (as it is now called) in the schools. Although some schools, particularly elementary and secondary schools, have not been very receptive to new programs, the federal government has been trying to encourage gleater exposure of children to career choices they will be making later in their lives and to provide them with skills so that they can find a decent job at whatever level they exit (i.e., a career ladder).

The .1975 Budget estimates the following changes in allocation of federal resources: 13

Vocational Education	1973	1975
. Elementary/secondary	355 million	194 million
Higher	160	72
Adult and continuing	91	46
. Consolidated voc. ed. funds		. 382
	\$606 million	\$694 million

In addition vocational students at the postsecondary level have access to a wide range of student aid programs.

•	1973	Estimated 1975
Basic Opportunity Grants	•	488 million
Workstudy, supplemental	542 million	510
Guaranteed student loan	206	314
Direct student loan	287	298
Student grants (social security)	638	856
Other sources of support are:		
Veterans readjustment	2,016	2,141
Health mannower (NIH)	604	563



Health manpower (NIH)

Ectimoted

More detailed discussion of current policy debate and Administration initiatives will be presented in the following section.

Federal Manpower Initiatives

Another stimulus for vocational education in the last decade came from the federal support of manpower training programs. By and large the intent of these programs was to provide training opportunites to disadvantaged groups. The first major initiative was the Manpower Development and Training Act of 1962, initially to alleviate skill obsolescence caused by automation. In a short time the program shifted focus to upgrading skills of the unemployed with little work experience and other manpower programs followed (Neighborhood Youth Corps, Operation Mainstream, Public Service Careers, Concentrated Employment Program, JOBS, Work Incentive Program, and Job Corps). These programs were distinguished from education programs by: 1) operating outside the normal educational process, 2) skill training for non-professional jobs, 3) providing services for less than one year and 4) targeting on disadvantaged groups. 14 The Department of Labor has not had sole jurisdiction over these programs: MDTA was to fall under 'HEW and Labor control and WIN was administered from HEW, for example. In addition, are vocational rehabilitation programs under HEW (since 1920) and the Veterans Administration. In December 1973, the Comprehensive Employment and Training Act (CETA) was passed to replace categorical grants under MDTA and others with flexible grants to state and local governments (revenue charing).

Manpower services have been divided into: work support, on-the-job training, institutional training, rehabilitation, and other labor market services and direction. Institutional training expenditures and man-years for 1973 and estimated 1975 are (these figures may be altered as states use discretion given under Comprehensive and Training Act):

	outlays (millions of dollars)			new enrollees (thousands)	
Comprehensive Manpower Assistance	<u>1973</u> 598	est. 1975 633	1973 204	est. 1975 338	
WIN	71	50	ູ101	32	
Social services (Welfare)	58	61	.600	550	
Other	55	41	49	38	

In addition, some training services are covered under the two vocational rehabilitation programs:

HEW	636	. 770	503	554
Veterans	88	94	19	18



The focus of manpower programs on the disadvantaged has been a conscious attempt to "avoid displacement of private training efforts which are generally targeted on different groups." The judgement was made that "persons with severe handicaps are least likely to be able to improve their employment experience without assistance." Several categories include those who are 1) school drop-outs, 2) under 22, 3) 45 or over, 4) handicapped, and 5) racial or ethnic minorities. 16

.Under the 1962 MDTA program proprietary schools could be used for training, but in the first year of operation they only constituted 2% of those institutions used. Over the years Congress legislated stronger incentives for contracting with proprietaries and by 1968 they took about 20% of all students. Manpower administrators compared to education administrators had less concern for whether a school was accredited or not, and consequently more concern with the value of training offered in terms of job performance. Thus, proprietary schools were not excluded from consideration. Public schools, community colleges, community agencies, and other profitmaking organizations provided the balance.

Massachusetts Initiatives in Vocational Education

The provision of vocational education and manpower training varies from state to state, depending on training needs in the labor force, size of the disadvantaged population, and goals of the State Department of Education. In 1972, Massachusetts enrolled the following numbers of students by program: 18

Vocational Education

	106	
Secondary	1	21,684
Voc/Tech Institutes		7,697
Postsecondary		13,019
Voc/Tech Institutes		1,557
Community Colleges		11,462
Adult		29,096
Manpower Training		37,100

Federal programs in vocational education have provided a stimulus to state and local spending (which constitutes 92% of the total), but manpower training programs are primarily financed by federal funds.

In 1964 (before Voc. Ed. Act funding), total support of vocational education (excluding construction of new facilities) was about \$11 million



of which 8% was federal, 45% state, and 46% local. In 1972, \$1.29 million was spent, with again an 8% federal contribution, ¹⁹ a clear commitment to expanding vocational programs. The state policy of categorical support to vocational programs is predicated on the greater expense of vocational than general education. In order that all communities provide programs, the state must bear some of the cost.

As can be seen in the chart above, the primary enrollments in vocational education have been in secondary school programs in each school system. But, the expansion of programs has been most dramatic in the building of new voc/tech institutes and the incorporation of programs into community colleges. In 1962, there were two regional voc/tech institutes, in 1973, 18 and in 1977, plans call for 35. In 1967, 48% of community college enrollments were in vocational education and in 1972, 62%. 20

States have been given a fair amount of discretion in use of federal funds for vocational education (this will increase if the consolidated grants program is passed). Some states have emphasized postsecondary level voc. ed. more than Massachusetts (Utah and Arkansas); others have experimented with resource centers without fixed student bodies (New York), for example. In Massachusetts the expansion of vocational education enrollments has occurred primarily in public high schools.²¹

Manpower programs have been operated under federal funding, but now under GETA greater discretion will be given to the state to determine needs and schools or agencies to utilize. Some state training programs are under the Division of Employment Security. The Executive Office of Manpower. Affairs has recommended a Technical Assistance Program to aid employers in solving employers' problems of finding additional workers. A staff of employer advisors will help in restructuring jobs, career ladders, and to set up in-plant training programs. Funds are included for training. 22

The role of proprietary institutions in State vocational education programs has been negligible. The only examples of utilization to date are contracting for the use of <u>facilities</u> of several proprietary cosmetology schools. The State is particularly limited by a Constitutional provision which prohibits aid to private institutions, be they non-profit or profit. However, an Amendment is likely to pass the Legislature for the required third time this year and allow direct grant. to both private degree-granting colleges and proprietary schools.

Proprietary schools have played a more important role in manpower programs in Massachusetts. Many schools have taken in MOTA, WIN and other manpower trainees on an individual referral basis, as well as Mass. Pehalilitation, G.I. Bill, and Veterans Rehabilitation-supported students. Several schools have also indicated taking students under the Federally Insured Student Loan (FISL) and National Defense Student Loan (NDSL) programs. No figures are yet available on either numbers of proprietary schools or students who have participated in these programs. 23

It is not clear what the impact of the expansion of public programs has been on proprietary schools. Historically, data collection nationally or in Massachusetts has been negligible. In Massachusetts there are a number of examples of schools closing in the face of public competition



at lower tuition. On the other hand, there are some indications that accredited schools have benefitted from the expansion of education grant and loan programs and manpower programs. Separating the effects of various policies is complicated by the fact that there has been an overall increase in demand for vocational education in the last decade.

CURRENT POLICY CONCERNS AND VOCATIONAL EDUCATION

Vocational education as a whole is being given support by current funding and a philosophical commitment to career education, but it has also been susceptible to a more general public disillusionment with education at all levels. In spite of increased government expenditures in education, there is probably more criticism of the system now than ten years ago. At the higher education level, in particular, concerns about education have fallen into several categories.²⁴

- 1. Education costs have been rising too fast.
- 2. There is too little diversity and innovation among institutions.
- 3. The value of a college degree has been falling in the job market.
- 4. High dropout rates indicate student dissatisfaction with what is offered.
- 5. Degrees are artificial and often inaccurate measures of competence.
- 6. Access to education is still limited for low income groups and for adults.
- 7. There is little coordination among public and private institutions:
 new public institutions often duplicate facilities of existing
 private institutions and proprietary schools.

In Massachusetts, a particularly controversial report by the Massachusetts' Advisory Council on Vocational Technical Education has questioned continued expansion of public programs as they have been developed in the past.25 The report raised the following criticisms of publicly-provided vocational education:

- 1. Access is still not provided to all groups.
- ·2. There is no evidence that schools operate cost-effectively.
- 3. Schools do not meet student demand for places.
- 4. Programs are not responsive to manpower needs.
- 5. There may be excessive duplication of programs.

The data behind these conclusions was not published in the report. One recommendation is that existing programs in proprietary schools should not be duplicated by public programs and that contracting with proprietary



eschools should be considered.

table, unresponsive and misdirected system. Admittedly, there is much disagreement about the accuracy of this description. However, many of the Nixon Administration proposals have been in response to precisely these and expand the public side, but to influence the total system of education respond to students' needs, etc. Within policy discussions the fundation in this context that proprietary schools are discussed. Perhaps reliance on certain elements of a private market system should be tried.

a fundamental belief that education was best offered in the public sector.

Not only would costs be minimal for students in tax-supported institutions, to private enterprise."26 This statement indicates an assumption that public schools will serve the needs of students better than schools which are trying to make a profit at the same time.

On the other hand, Lloyd H. Elliott, President of George Washington
University, has said "This country's education is bogged down in too
much bureaucratic red tape, too much homogeneity ... education for the poor
and affluent alike would be spurred along if our society could bring greater
competition into the educational mainstream by encouraging profit-making
educational ventures."27

The Nixon Administration, by redirecting aid to students and including accredited proprietary schools in legislation is taking a stance which reflects a view that more should be left to a market system in education. In the instance of Basic Opportunity Grants, more power is given to the student to choose where he wishes to go. In theory public institutions will have when students had fewer resources and often had no choice but to attend a low-tuition public institution. Hopefully, both public and private institutions will offer a greater diversity of programs and innovate new techniques.

Proprietary schools have a unique place in this debate: while they have been ignored in the past when federal money automatically went into public systems, they are now interesting examples of what private enterprise will do in a sector like education. Proponents of proprietary schools claim that the pressures on schools to attract students who believe they can get a good job after training force them to continually respond to both changes in labor market needs and in student preferences. They are claimed to be more efficient by virtue of having to compete against each other and the highly subsidized public programs. Finally, competition forces them innovate and reform, find opportunities for new techniques, new student arkets, etc. Critics, on the other hand, claim proprietary schools miswhile attempting to maximize profits for the owners.



ALTERNATIVES TO SUPPORT OF PUBLIC SYSTEMS

In the past, education policy has been dominated by the issues of how public education should expand to meet the needs of the students and the economy. Vocational education in other parts of the market (proprietary schools, company programs, the military) were rarely even considered when planning new programs. School administrators, for example, know little about the activities of proprietary schools in their geographic area, even though they may be offering similar curricula. Under this view of education to be provided by public institutions alone the primary policy tool was direct funding of programs. Activities of proprietary schools were regulated only to the extent that they be required to follow responsible financial practices.

Once the assumption of public support and preoccupation with public institutions comes into question, a new policy perspective becomes possible with a new set of policy alternatives. Since federal money is less committed to support of public institutions than is state money, the more radical use of other policy tools can be considered primarily at the federal level alone, however.

This approach of public policy is to view the vocational education sector in its entirety as a mix of public, non-profit, proprietary, and industry programs. Questions of public policy are then how to influence the development of the sector as a whole; how to structure a set of incentives for each type of institution to provide the desired services and for students to participate in an optimal and equitable manner. A new range of policy tools are then available: funding of students, not institutions; raising tuitions at public institutions, subsidizing tuitions at private institutions, or regulating charges of each type of institution; coordinating activities of all institutions to avoid duplication or encouraging competition in a merket structure; contracting with public, private or proprietary schools; funding experimental projects in each type of school, and others.

Under such a perspective public institutions would no longer be viewed as agents of the public will providing a public good, but rather more appropriately as semi-autonomous bureaucratic organizations which once developed have a direction and force of their own. Even at the State level the motion of public schools being under public control is somewhat in error. In higher education in Massachusetts, a variety of groups contribute to the determination of activities of institutions: a lay board for each segment (Community Colleges, State Colleges, U/Mass, Lowell Tech, and Southeastern Mass. University), a Board of Higher Education, the Executive Office of Educational Affairs, staffs in each segment, and finally, the day-to-day operations of each campus are carried out largely out of public view. Vocational technical institutes are supported by both State and local money, but are primarily responsible to local directives. To the extent that public institutions also take in tuition from students and research and development, and program funds from government agencies and private groups, they are less accountable to a centralized public decisionmaking process.



In viewing the vocational education sector as a whole, the various types of institutions, including public, could be considered as distinct units, each with a typical organizational structure, a mix of financial sources, a set of goals and objectives, and a pattern of interaction with students and other institutions. For example, within the vocational education system in Massachusetts:

--Decisionmaking and control in public community colleges is quite dispersed across the departments. Since a large share of faculty are tenured, departments can be somewhat free of direct central administrative control. Vocational/technical institutes are operated much more like high schools, with less department cohesiveness. Proprietary schools are small and centrally controlled. Faculty have no traure and all decisions are made by management.

--Community colleges are primarily financed by State funds, with tuition set at \$200 per year for full-time students, vocational/technical institutes are financed by both State and local funds (some federal), while proprietary schools are financed entirely by student tuition and fees (although some students may be receiving support from other agencies).

--Community colleges are comprehensive education institutions meeting needs of transfer and terminal students, youth and adults, academic and vocational students, affluent and disadvantaged students, high achievers and high school dropouts. They set objectives of meeting community service needs, providing general education for good citizenship, and training students in job skills. Public vocational/technical institutes are more heavily focussed on vocational training but also attempt to provide general education components. Proprietary schools, in contrast, are focussed entirely on providing job-related skills for immediate employment.

--Community colleges have policies of trying to accept anyone, either into a full-time or evening program, vocational/technical institutes are selective among high school students who apply (since demand for places is twice current capacity) although they also have adult programs, and proprietary schools are somewhat selective but typically aim for the bottom half of the high school class.

Given these differences in goals, finances, and operations, policies will vary in their impact on institutions. The determination of public policy in the context of a wider mix of institutions requires much more data and sophisticated analysis than in the past. For each type of institution on the supply side, the following must be known:

- 1. what do schools do?
- 2. do they operate efficiently?
- 3. are they responsive to changing needs and do they innovate?
- 4. what types of students do they select?
- 5. how do they interact with other institutions?
- 6. how will they react to various policy changes?



on the student or demand side, it must be known:

- 1. what do students want and need from vocational education?
- 2. what can they afford to pay and do costs inhibit enrollments?
- 3. do students make intelligent choices?
- 4. how will students react to various policy changes?

The current problem for policymakers is lack of such substantive data on proprietary schools and a comparison with public institutions.

The focus of this research is on compiling such data for the State of Massachusetts, although findings will be relevant to other states and national policy as well. Finally, recommendations will be made for public policies.

An example of one particular problem to be analyzed in this process is the following. It is generally believed that one of the major handicaps in the Massachusetts economy is a mismatch of training opportunities to the real needs of employers. As a result industry complains of serious shortages for skilled workers in certain fields. If this is the case, then the vocational education and training system in the State is failing to adapt to the changes in the labor market. (This point is open to question since 'shortages are in many cases in low wage, factory jobs that young people don't want -- this may reflect a failure of industry to reorganize jobs more than a failure in training opportunities).

A recommended policy of education policymakers has been better <u>planning</u> of programs to meet the needs of local employers. This may involve manpower projections and interviews with employers and a sophisticated and periodically updated analysis will be required as shifts occur in the economy and shortages develop in one area or another. In fact, planning of this sort has been notably unsuccessful in the past.

... An alternative approach is to structure a set of incentives in the vocational education and training market so that institutions and students alike will make choices to train in areas where shortages exist. Proprietary schools would already claim to operate in this fashion; they are aware of the job success of each graduating class and adjust their programs accordingly. If they do not provide skills needed in the marketplace, students will not enroll. In fact, some proprietary students have sued for a return of tuition when they cannot get a job after graduation.

It may be possible without interfering with other educational objectives, to structure a set of incentives to public institutions to respond to changes quickly and efficiently. Given past problems with manpower planning attempts, this might be a better policy approach. The data needed to make such a policy decision is of the sort outlined above. How do public and proprietary schools and students succeed or fail in meeting manpower needs and what kinds of incentives should be used to influence their activities?



Footnotes.

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II. QUANTITATIVE ANALYSIS OF THE PROPRIETARY MARKET

Two issues are being investigated in this part of the study: the impact of the rapid increase in junior and community colleges and of industrial structure on proprietary and related vocational training in various states; and the effect of proprietary training on the earnings and job position of high school dropouts and other disadvantaged groups.

Analysis of the first issue is utilizing Census of Population and Office of Education data. An index of state 'demand' for vocationally trained workers has been calculated on the basis of the type of industries in each state and national employment of vocationally trained workers by industry. More precisely, the index is defined as

(1) $\Sigma W_{\underline{i}}^{P}_{\underline{i}}$ where $W_{\underline{i}}$ = percentage of persons in state working in ith industry,

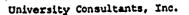
P_i = percentage of persons in the industry with vocational training.

The index differentiates between men and women and five types of training: business or office work, health fields, trades and crafts, technicians and agriculture. Indices for the U.S. and selected states, including Massachusetts, are given in table 1. This table shows that, on the basis of the industrial structure of Massachusetts 28.8% of men and 29.2% of women could be expected to have some vocational training, compared to 29.2 (29.3)% in Michigan and 27.6 (29.5)% in Nebraska. In terms of trade and craft training, Massachusetts' structure demanded less training than Michigan but more than Nebraska. The next research step is to compare these indices with actual numbers of vocationally trained workers and to evaluate the determinants and effects of divergences.

In addition to the indices, data or the rurler and type (by curriculur and organizational form) of vocational schools in each state have been obtained from Office of Education sources. To examine the question of how increased numbers of public alternatives have affected the proprietary market, the number of proprietary schools (PPOP) will be regressed on several variables, including the total population of the state (SIZE), the indices of demand for vocationally trained workers and the number of 'competitive' public institutions. The results of the calculations should indicate, all else the same, the extent of substitution between public and private institutions - the degree to which many public alternatives reduce the private sector.

Future work with these data is to involve specification of the dimensions of competition and development of a more detailed econometric model of the training market. Information on the number and salary of vocationally trained and college-trained workers by state will be used in this work.

Analysis of the Census and Parnes Tape data on the effect of training on the earnings of workers with different levels of formal education yields a striking result. As table 2 shows, persons with less education 'benefit' more from such training than those with more education. While this is



presumably due, in part, to differential selectivity, with the more able less educated and the less able more educated seeking such training, the evidence suggests that vocational training does help high school dropouts advance in the economy. Corroborating Parnes Tape evidence, on young men, aged 18-28, which holds fixed many personal characteristics of workers, has also been obtained. This data is being analyzed further in order to pin down (a) the factors leading individuals to choose vocational training; and (b) the effect of such training on their economic success. Such an analysis requires simultaneous equations or other relatively complex multivariate statistical analysis.

Table 1: Indices of Demand for Vocationally Trained Workers; Selected States: 1970

Predicted % Workers with Less Than 4 Years of College

state .	all vocations	business office	health fields	trades & crafts	technicians
Massachuse	etts				
male	28,8	4.8	0.66	16.0	. 3.0
fema?	le 29,3	13 0	5.0	2.9	0.3
Michigan					·
male	29.2	4,2	0.3	17.0	3,7
. fema	le 29 . 3	12,9	5.0	3,3	0.3
Nebraska	·				
male	27.6	4.2	0.3.	13.7	2.6
femal	le 29.5	12,6	5.9	3.5	0.3

Source. Calculated from data in U.S. Census of Population: 1970.

Table 2: Differential Earnings of Vocationally and Non-Vocationally Trained Workers, by Level of Schooling

•		Total		-	Black	* **
group & yrs. of schooling	with training	without training	ratio	with training	without training	ratio
MALE -				· .		
h.s. dropout	8021	6865	1.17	5846	4994	1.17
h.s. graduate	9251	. 8335	1.11	7064	6594	1.07
.1-3 yrs. college	9888	9724	1.02	7712	7304	1.06
.4 or more yrs of college	12291	12861	.96	89 85	9 322	. 96.
· FEMALE	•					
h.s. dropout	3774	3256	1.16	3192	2 3 2 0	1.38
.h.s. graduate	4613	4073	1.13	4258	3724	1.14
.1-3 yrs. college	5175	4647	1.11	5213	4710	1.11
4 or more yrs. of college	6893	7156	.96	6990	7373	.95

Source: U.S. Census of Population: 1970

III.A. INSTITUTIONS INCLUDED IN THE STUDY

A variety of institutions provide vocational education in Massachusetts: propriety schools, independent non-profit schools, vocational/technical institutes and other public schools offering vocational programs, community colleges and other degree-granting institutions. No agency of the state maintains lists of all postsecondary level programs (up to the Associate Degree level) and therefore lists have been compiled. Schools were organized by proprietary, non-profit and public groups, Institutions are separated into 13 geographic service areas as determined by attendance patterns of adult students.*

Proprietary schools offer both vocational and avocational courses. About 260 vocational schools were located in the <u>Directory of Postsecondary Schools with Occupational Programs 1971 Public and Private.</u> The rest were found in the <u>Vellow Pages across the state.</u> The avocational schools were located entirely through the <u>Vellow Pages.</u> Proprietary and non-profit avocational schools were grouped together since it was not possible to ascertain ownership from a telephone listing.

In vocational areas, non-profit institutes were identified in the <u>Directory</u> and public programs were identified by the Division of Occupational Fducation. Other degree-granting institutions were identified in Board of Higher Education publications and listed if catalogs showed programs in vocational areas.

Proprietary Schools-Vocational

Independent Non-Profit Schools-Vocational

Vocational Technical Schools And Other Public Postsecondary Schools
Community Colleges

Institutions Other Than Community Colleges Which Grant Associate Degrees

Proprietary & Independent Non-Profit Schools-Avocational

Correspondence Schools

Unclassified Schools

* Nolfi, C. and V. Nelson, Strengthening The Alternative Postsecondary Education System: Continuing & Part-Time Study in Massachusetts



INDEPENDENT KOM-PROFIT SCHOOLS - VOCATIONAL (CONT'D.)

TON AREA (Cont'd.)

HALDEN

Malden Hosp. Schl. of Mursing Haspital Road 02148 Hulden Hosp. Schl. of X-Ray Tech. Hospital Road 02148

ALPFO20

Laurence Hem. Hosp. Schl. of Nursing 170 Governors Avenue 02155

HILTON

Hilton Hosp. Schl. of X-Ray Tech.

NINIG: LOPER FALLS

Newton-Wellesley Schl. of Nursing 2014 hashington Street 02154 Newton-Wellesley Schl. of X-Ray Tech. 2014 Noshington Street 02154

COLING

Quincy City Hosp. Schl. of Nursing 114 Maitwell Street 02169 Quincy City Hosp. Schl. of X-Ray Tech. 114 Shitzell Street 02169

ROXBURY

New England Baptist Hosp. Schl. of Nursing 91 Parker Hill Avenue 02120

SOMERVILLE

Socerville Hosp. Schl. of Nursing 230 Highland Avenue 02143

KALTIUVI

Maith. a Hosp. Schi. of X-Ray Tech.

VICKTIFINAL-TECHNICKE, SCHOOLS, WID OTHER PUBLIC POSTSECONDARY SCHOOLS

SPRINGFIELD AREA

Holyoke Trade High School 325 Pine Street, Holyoke Poger L. Putnas Vocational-Technical IIIgh School 1300 State St., Springfield

PITTSFIELD/KORTH ADAMS AREA

Charles II. McCann Regional Technical Institute Hodges Crossroad, North Adams 02147

Pittsfield Vocational High School Valentine Hoad, Pittsfield 01201

MILLINST/MORTHANITON ARFA

Smith's Vocational and Agylcultural High School An Locust Street, Northampton 01060

KORCESTI,R AREA

Morcester David Hale Fanning Trade High School 24 Chatlan Street, Morcester 01608

Korcester Industrial Technical Institute 26 Salisbury Street, Worcester Olóús

FITCHBURG/CARINER APEA

Lecainster Vocational High School Granite Street, Lecainster 01453

fontachusett Pegional Technical Institute 1050 Hestninster Street, Fitchburg 01420

PANINCHMI AREA

Assabet Valley Regional Vocational-Technical School Fitchburg St., Mariboro 01752 South Middlesex Regional Vocational-Technical School

LYNN/SALIN APEA

Lynn Vocational Technical Institute 80 Neptune Boulevard, Lynn 01902

Northeast Metropolitan Regional Technical Institute Breakheart Reservation, Makefleld Ol880

Electronic Computer Programming Institute 15 Maple Street 01608

Cross Acadeny Seven Hills Plaza 01600

TORCESTER (Cont'd)

Franklin Airvays 01576

TURNERS FALLS

Leo's Beauty Institute 105 Southbridge Street 01608

Salter Secretarial School

State Realty Institute 390 Jigin Street . - Vitek (Air Morcester)

University Consultants, Inc.

PROPRIETANY SCHOOLS - VOCATIONAL (CONT'D)

PROPRIETARY SCHOOLS - VOCATIONAL

Berkshire Aviation Enterprises Great Barrington Airport 01232

CREAT BARRINGTON:

PRINGELELD AREA		PITTSFIELD/KORTH ADAKS AREA
ENOVICE:	SPRINGFIELD (Cont'd)	BAPPE
Brors Academy of Hairdressing 254 Haple Street 01040	Carol Russell School of Charm & Modeling 122 Chestnut Street	Hiller Airport School of Aviation P.O. Box 518 01005
Holvoke Business School 247 Cabot Street 01040	Mansfield Academy of Beauty Culture 286 Northington Street	AMIEPST/KORTHWIPTON ADEA
Peal Estate Salescans School	Shith and Hesson Academy 299 Page Boulevard	NORTHANPTON
PALVER	Sadak and Lukas Peal Estate School 349 Northington Street	City Aviation, Inc. Le Fleur Airport 01060
Roberts Aviation Metropolitan Airport 01049	Thomas Real Estate School 460 Liberty, Street	tooley Dicknison Hosp. School. St A-ray team. J. Locust Street 01060
SOUTH HADLEY	United Technical Schools 11 Morzan Street 01107	MOPCESTEP AREA
Faul Cassassa Feal Estate School 491 Granby Poad	Sidney Baron Real Estate School	DUDLEY
SPPINGFIELD	682 Swiner Street	Dudley Hall Career Institute
American Vocationa; Training School, Inc. 721 State Street	PESTFIELD	25E Fest Main Street
Allied Construction Training Corp.	barnes Aviation, Inc. P.O. Fox 477	Airways,
gross Farber School	Eastern Atlantic Heavy Equip. Training RFD East Hountain Road	Hopedale Airport 01747 .
1696 'tain Street 01103	Vocational Education and Training Corp.	Sterling Aviation
frogan Feal Estate School 1525 Belwont Avenue	KEST SPAINGFIELD	MORESTER
La Baron Hairdressing School 182 State Street	Business Education Institute	Bross Academy of Hairdressing 623 Main Street 01608
Central Travel School 220 Worthington Street		Brons Barber School 584 Main Street 01608
Bartending School of Mixology 121 Lyzan Street		

ERIC

PROPRIETARY SCHOOLS - VOCATIONAL (CONT'D)

PROPRIETARY SCHOLLS - VOCATIONAL (ONT'D)

	ANDMER/IMELL APEA	
	ANDOVER	EAST PEPPEPELL
Hunter Aviation Corp.	•	B.B. Airsays
Fitchburg Airport 01420	90 Main Street 01810	LOWELL
	Andover Tractor Trailer School	Lowell Academy of Hairdressing, Inc.
	науерніць	136 Central Street 01852
	Le Baron Acadeny of Hairdressing 139 Merrinack Street	Solari School of Hair Design 128 Herrirack Street 01852
HARLEORO	· Dutton Flying Service	NORTH ANDOVER
Don's Flying Service	LANPENCE	Four Star Aviation, Inc.
figures nost, sensor of restriction forms	M. Fazio Institute of Beauty Culture 354 Essex Street 01840	•
	Michael's School of Hair Design, Inc. 360 Essex Street	Tew Hac Aviation, Inc. Hain & Livingston Street 01876
		Tewksbury Hops. School of Prac. Murs. East Street 01875
	BUPLINCTON/DEDFOPD AREA	•
LYD	\ BEOFORD	LEXINGTON
Continental Boauty Academy	Aero Progress, Inc. Hanscon Field 01730	East Coast Aero Technical School Hanscom Field, D. A. A. A. A. A. A. B. D. A. Bre 206, 19173
Helrose Beauty Academy	Comerford Flight School	
Saleh	Executive Flyers Aviation Academy Hanscon Field 01730	Koburn Business School
Hansfield Academy of Beauty Culture 254 Essex Street 01970	Technical Aero Service Hanscon Field 01730	
SAURIUS	EURLINGTON	•
Saugus Feneral Hosp Schl. of X-May Tech 81 Chestaut Street 01902	Control Data Institute 20 North Avenue 01803	
SMARSCOTT		•
Marian Court Secretarial School 35 Littles Point Road 01907		

III-4

East Coast Tractor Trailer-School.

DANVEPS

New England School of Real Estate SO Ellott Street

New Empland Flvers Airservice Beverly Airport 01915

Essex County Educational Center 6 Mathleen Drive

Instrument Flight Training Beverly Airport 01915

· North Atlantic Airways

New England Educational Center Popers Poad 01746

KULSITIVA

TYN/SALEW AREA

BENERLY

Opticians School of Framingham P.o. Box 2097

Kenneth Hair Design 12 Irving Street 01701

Henri's School of Hair Design 276 Nater Street 01420

FRAVINGEAN APEA

FRAHINCHAN

Fitchburg Aviation, Inc. Numicipal Airport 01420

FITCHBURG/GARDNEP AREA

FITCHBURG

(ca.7.0) Proprietany schools - vocational

•	KARKELL	. Hall Institute of Real Estate	AUGHICO Aviation Career Institute 100 Access Road	Norwood Hosp. Schl. of X-Ray Tech 800 Washington Street 02062	Niggins Airways Hunicipal Airport, Access Road 02062 PEHBROKE	Chandler School of Welding	en. Hosp.	909 Sunner Street 02072 New England Institute of Real Estato	845 Washington Street			NEW BEDFORD	La Baron Halrdressing Academy 281 Union Street 02740	New Redford Beauty Academy, Inc. 1872 Acushnet Avenus 02740	TAUNTON	Taunton Beauty Acadesy 1 School Street 02780		HTANIS	Sullivan Real Estate School Route 132
BENCKTON APEA	BRACKTON	Brockton Academy of Peauty Culture 162 Marren Avenue 02401	La Baron Hairdressing Academy 173 Hain Street 2 01d Colony Trade School	426 North Narren Avenue 02401 EAST TAUNTON	King Aviation Service, Inc. Taunton Humicipal Airport 02718	MANNER House of Pealty Feal Estate School Pte. 53 & Broadway	HANSFIELD	Carleton Whitney Aero Service, Inc. Wansfield Humicipal Altport	PAPSHFTELD	Marshfield Aviation	ALL PINER/NEW REFFORD AREA	FALL PIVER	Fall Piver Acadesy of Beauty Culture 260 South Hain Street 02721	Union Hospital Schl. of X-May Tech. Highland Avenue 02720			ALICUTII/BAPNSTABLE APEA	ELST FAUYOM	Wills Flving Service Falcouth Airport 02536

BOSTCN AREA	AREA	
ALLSTON	TON	BOSTON (Cont'd)
Jean 130-	Jean Cappy, Inc. 130-132 Harvard Avenue 02134	Court and Legal Stenographers
BOSTON		AND CALCAC
Acad 35 Cc	Acadenie Moderne, Inc. 35 Commonsaith Avenue	Jaie Academy of Hairstyling 476 Roylston Street 02116
Barb: 739 E	Barbizon School of Modeling 739 Boylston Street	Eleanor F. Roberts Inst. of Electrology 59 Temple Place 02111
Bay S 122 C	Bay State Jr. College of Business 123 Commonstalth Avenue 02116	Electronic Codputer Programing Institute 528 Coumonwealth Avenue 02215
805 E	Boston City Hospital School for Mursing 818 Harrison Avenue 02118	Erery School 120 Boylston Street 02116
867 B	Eryant Stratton Comercial School 867 Boylston Street 02116	Hiss Farrer's School of Cookery, Inc.
Burde 160 Z		Hickox Secretarial School 200 Tranont Street 02116
Caree		The Insurance School Insurance Library Assn. of Boston One Beacon Street 02103
Andov 715 &	Andover Institute of Business 715 Boylston Street 02116	117 Technical Institute 985 Cornonvealth Avenue 02215
, J Caree	s Career Training Institute	John Robert Pozers Finishing School
Carol (480 C	Carol Nashe School 480 Commonwealth Avenue 02215	Hiss Kelly's Schl. of Electrology of Zero Enerson Place
Chang 448 Big	Chandler School for Women 448 Beacon Street 02115	1001 101 02116
. Child	Children's Hospital Medical Center 300 Longwood Avenue 02115	
Coyne 100 H	Coyne Electrical and Technical School 100 Massachusetts Avenue 02115	
Cople, 739 Br	Copley Secretarial Institute 739 Boylston Street Aplik	
		Mansfield Azadery of Beauty Culture of 144 Boylston Street 02101

La Parisienne Boauty Academy 259 Washington Street 02159

PROPRIETARY SCHOOLS - VOCATIONAL (CONT'D)

EA (Cont'd)		
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STST(N (Cont'd)

Marshall Jenkins School for Secretaries 35 Commonwealth Avenue

Mass. Gen. Hosp. Schl. of Rediologic Tech. Fruit Street Ollid

ussachusetts Radio & Electronic School
71 Huntington Avenue 02115

** sachusetts School of Barbering 346 Nashington Street 02111

"ra Gourset School

15 Commonwealth Avenue 02215

England Barber College O Washington Street 02185

Hew England School of Art

New England School of Mechanical Dentistry 739 Poylston Street 02116

New England School of Photography 557 Commontal Avenue

New England School of Steam Engineering 120 Boylston Street

ortheast Broadcasting School 'Harlborough Street 02116

Jul School of Marine Engineering.
/o Soston Seasan's Friend Society, Inc.
/ Park Square 02116

Atricia Stevens School S Tremont Street

-rson's School for Steam Engineering : Hilk Street 02109

.E.T.S. Electronic Schools

ittners School of Floral Design 345 Marlborough Street 02115

Professional Bartenders School 739 Boylston Street

School of Medical Photography Beth Israel Hospital 300 Brookline Avneue School of Medical Illustration 30 Fruit Street 62114

Art Institute of Boston 718 Beacon Street 02115

Touch Shorthand Academy 333 Nashington Street 02108

United Technical Institute 70 Brookline Avenue

University Hospital Schl. of X-Ray Toch, 750 Harrison Avenue 02118

Vesper George School of Art 42-44 St. Botolph Stree: 02116

Millett Institute of Finance 120 Boylston Street Wilfred Academy 120 Tremont Street 02108

Carbridge Schl. of Plumbing Layout & Design 931 Dorchester Avenue 02225

BRIGHTON

Leland Powers School

2001 Beacon Street BROOKLINE Lee Institute of Real Estate

02146 310 Harvard Street 021.9 323 Boylston Street Brysan Medix School

CAKBRIDGE

DiAnthony School of Cosnatology, Inc. 2107 Hassachusetts Avenue 02140

BOSTON AREA (Cont'd)

CAURAINSE (Cont'd)

Cambridge City Hosp. Schl. of X-Ray Tech. 1493 Cambridge Street 02139

New England Fuel Inst. Technical Traiming 34 Cottage Park Avenue 02140

La Newton School of Beauty Culture 636 Warren Street 02119

Usociated Technical Institute

KALTRAY

SOTENILLE

Leston Business School 919 Commonwealth Avenue 02215

CARLEY

Center for Visual Studies at Ingeworks 63 Rogers Street

Beauty Creators School of Hairdressing 313 Broadway 02150

III Technical Institute DORCHESTER

Robert Pritcherd Beauty Acedemy 200 Koody Street 02154

Sylvania Technical School 63 Second Avenus 02154

Henry I. Signous School

FLLESLEY

Dericen Real Estate Academy 771 Hain Street

Neponset Circle School of Welding 750 Gallivan Boulevard 02122

Solari School of Hair Design 330 Main Street 02148

Tech-Age School of Walden 6 Pleasant Street 02148

KEEDIWI

Glover Men, Hosp, Schl. of X-Ray Tech.

VENTON CENTER

Lacy Sales Institute 80 Union Street 02159

CUINCY

Hanover Beauty Academy 24 Cottage Avenue 02169

Mansfield Academy of Beauty Culture 200 Parking May 02169

New England Tractor Trailer Training 542 E. Squantum Street 02171

MALDEN

Allied Trzetor Treller

ESTIVODD

DeSonaire Acadesy of Beauty Culture

47 Spring Street

KEST ROXBURY

Quincy Beauty Acadeay 30 Franklin Street 02169

Union Hospital School of X-Ray Technology 500 Lynnfield Street 01904

INDEPENDENT KIM-PROPIT SCHOOLS - VOCATIONAL

SPRINGFIELD AREA

INDEPENDENT HYN-PROFIT SCHYNLS - VOCATIONAL (CONT.D.)

FITCHEUPE/CARINE® APEA

HOLYOKE	Springfield	FITCHBURG	LECHINSTER	
Holyoke Hospital School of Nursing 575 Beach Street 01040	Hercy Hospital School of X-Ray Technology 233 Carew Street 01104	Burbank Hospital School of Mursing Michols Road 01420	Lecainster Hospital School of Nursing Hospital Foad 01453	
Providence Hospital School of X-Ray Technology 1233 Main Street 01040	Springfield Mospital Medical Conter School of Mursing 759 Chestnut Street 01107	Burbank Hospitel School of X-Ray Technology Nichols Poad 01420		
	Western Hass, School for Practical Nursing	FRMINGIAN AREA		
PITTŠFIELD/KOPTH ADAIS APEA	•	Frahingiah		
NOTH ADAUS	PITTSFIELD	Framingham Union Hospital School of X-Ray Technology 25 Evergreen Street 0/201		
North Adams Hospital School of X-Pay Technology Hospital Avenue 01247	Berkshire Hedical Center School of Anesthesia 725 North Street 01201	Framingham (hion Hospital School of Nursing Evergreen Street 01701	I 7	
North Adams School of Anesthesia Nospital Avenue 02147	St. Lukes Hospital School of Nursing 333 East Street 01201	LYNY/SALD! APEA		
		DETERLY		
CPFENFIELD		, Beverly Hospital School of Nursing Werrick & Heather Streets 01915	Metrose Wakefield Hospital School of Mursing 340 Main Street 02176	
Franklin County Public Hospital School of X-Ray Technology 172 High Street 01301	of X-Ray Technology	Beverly Hospital School of X-Ray Technology Herrick & Heather Streets 01915	ol of Nursing	
COPCESTEP APEA		. תרחעכבאדפי		
PTPCESTER	MORCESTER (Cont'd)	Addison Gilbert Hospital School of X-Ray Technology	Salen Hospital School of A-Ray Jechnology of 81 Highland Avenue 01970	
Mecorial Hospital School of Mursing 119 Telcont Street 01605	St. Vincent Hospital School of Nursing 25, Winthrop Street 01610	298 Mashington Street 01930 LYNN		
New England School of Accounting 45 Cedar Street 01609	Morcester Hahnemann Hospital School of Nursing 181 facels Comman Olfor	Lynn Hospital School of Nursing 212 Boston Street 01904	onsul!	~~~~~
St. Vincent Hospital School of X-Ray Technology 25 Minthrop Street 01610		<u> </u>	cants, I	* *
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INTEPENIENT NOK-PROFIT SCHOOLS - VOCATION! (CONTU.)

WIED/INELL AVEA	•
HAVEPHILL	UNEIL (Cont'd)
Vaverhill Humicipal Hospital School of X-Ray Technology of Euttonwoods Avenue 01830	Lovell General Hospital School of X-Ray Technology 295 Varnum Avenue 01850
JAPENCE	St. John's Hespital School of X-Ray Technology
Avrence General Hospital School of Nursing	14 Eartlett Street 01852
. Farden Street 01840	Ketinen
Javrence General Hospital School of X-Pay Teehnology I Garden Street 01840	Bon Seccurs Haspital School of X-Ray Technology 70 East Street 01844
רנאבור	
Lovell General Hospital School of Nursing 195 Varnum Avenue 01850	

LINGTON/BEDFORD AREA

harles Choate "corial Bospital	School of X-Ray Technology Narren Avenue 01801
Carle	21 %a1

New England Memorial Hospital School of X-Ray Technology S Woodland Road 02160

KTON APEA	

	rockton Hospital School of Nursing 50 Centre Street 02402	ondville Hospital School of Practica
	al School (et 02402	tal Schoo
2	rockton Hospital SO Centre Street	lle Hospit
POCKTON	rockt SO Cei	ondville

NEW BESFORD

Kinyon & Campbell Business School 222 Union Street 02041

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ACKIES .	rockton Hospital School of Nursing 50 Centre Street 02402	ondville Hospital School of Practical Nursing

South Shore Hospital School of X-Ray . Technology 90 Columbian Street 02190

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INDEPENDENT NOW-PROFIT SCIENCE - VOCATIONAL (CONT'D.)

•	LOSTON (Cont'4)	Peter B. Brigham Hospital School for X-Riy Technology 721 Huntington Avenue 02115	School of Fashion Design 136 Karbury Street 02118	Shepard-fill School of Practical Mursing 222 Narbury Street 02116	Veterans Africation Hospital 150 S. thurtington Avenue 02130		St. Ellistein's Fespital School, of Nursiage 736 Carbridge Street 02135	Technology 102-21-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Cambridge	Ht. Auburn Hospital School for Kuraing 310 Ht. Auburn Street 02138	Youville Hospital School of Practical Muraing 1575 Carbridge Street	CIELSEA :	### 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EVEREIT Midden Reportal Bornital School of Mursins	103 Garland Street 01742	Jaile Plain -	Lemus Shattuck Horpital School of Practical throing Norton Street 02130
BASTAN APEA	BOSTON	Art Institute of Bostom, 702 Beacon Street Beth Israel Hospital School for	Dental Assistance 330 Brockline Avenue 02215	Boston City Hospital School of X-Pay Technology 818 Harrison Avenue 02118	, 8	Carnepie Institute Medical School 65 Anderson Street 02114	. Carney Hospital School of Amesthesia 7100 Dorchester Avenue 02124	Charberlayne School of Retailing 90 Mariborough Street	Faultner Hospital School of Mursing	Faultner Hospital School of X-Ray Technology	1153 Centre Street 02130 Forsyth School for Dental Hyglenists		Fruit Street 02100	New England Deaconess Hospital School of Nursing 185 Pilerin Road 02215	cal Center School of	171 Harrison Avenue 02215	Northeast Institute of Industrial Technology 41 Phillips Street 02114

Peter B. Brigham Hospital School of Nursing 721 Huntington Avenue 02115

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(cont.0.) INDEPENDER XXX-PAOFIT SCHOOLS - VOCATIONAL

(Cont'd.) BOSTON ASEA

Malden Mosp. Schl. of Mursing Hospital Road 02148

Malden Hosp. Schl. of X-Ray Tech. Hospital Road 02148

PEDFORD

Laurence Hem. Hosp. Schl. of Nursing 170 Goyernors Avenue 02155

HILTON

Hilton Hosp. Schl. of X-Ray Tech. 92 Highland Street 02186

NENTON LOKER FALLS

Newton-Kellesley Schl. of Nursing 2014 hashington Street 02154

Newton-Wellesley Schf. of X-Ray Tech. 2014 Nashington Street 02154

Quincy City Hosp. Schl. of Nursing 114 Shitwell Street 02169

Quincy City Hosp. Schl. of X-Ray Tech.

ROXBURY

New England Baptist Hosp. Schl. of Nursing 91 Parker Hill Avenue 02120

SOVERVILLE

Somerville Hosp. Schl. of Nursing 230 Highland Avenue 02145

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Naithea Hosp. Schl. of X-Ray Tech. Hope Avexue

VICTATIONAL-TECHNICAL SCHOOLS AND OTHER PUBLIC POSTSECONDARY SCHOOLS

SPRINGFIELD AREA

Holyoke Trade High School 325 Pins Street, Holyoke

Poger L. Putnam Vocational-Technical High School 1300 State St., Springfield

Charles II. McCann Regional Technical Institute Hodges Crossroad, North Adams 02147 PITTSFIELD/NORTH ADAIS AREA

Pittsfield Vocational High School Valentine Road, Pittsfield 01201

AUGRST/HORTIWIPTON AREA

Smith's Vocations! and Agricultura! High School 80 Locust Street, Northampton 01060

FORCESTER AREA

Korcester David Hale Fanning Trade High School 24 Chatham Street, Morcester 01608

111

Korcester Industrial Technical Institute 26 Salisbury Street, Worcester 01605

FITCHBURG/GARINEP. AREA

Leominster Vocational High School Granite Street, Leoninster 01453

Montachusett Regional Technical Institute 1050 Mestminster Street, Fitchburg 01420

FPAHINGIAN AREA

Assabet Valley Regional Vocational-Technical School Fitchburg St., Mariboro 01752

South Hiddlesex Pegional Vocational-Technical School 750 Winter Street, Framingham 01701

LYNN/SALER AREA

Lynn Vocational Technical Institute

80 Neptune Boulevard, Lynn 01902

Northeast Hetropolitan Regional Technical Institute Breakheart Reservation, Makefield 01850

INCATIONAL-TECHNICAL SCHOOLS AND OTHER PUBLIC POSTSECINDARY SCHOOLS

(CONTINUED)

ANDIER/LONELL AREA

Essex Agricultural and Technical Instituto Maple Street, Hathorne 01937

Greater Lawrence Regional Technical Institute 57 River Road, Andover 01810

Lowell Trade High School 64 John Street, Lowell 01852

Whittler Regional Vocational-Technical School 115 Accobury Line Rd., Haverhill 01830

BUPLINGTON/BEDFORD AREA

BROCKTON AREA

Blue Hills Pegional Technical Institute 100 Randolph Street, Canton 02021

Henry O. Peahody School Peahody Road, Norwood 02062

FALL RIVER/NEW BEDIORD AREA

Bristol-Plymouth Regional Vocational-Technical High School 940 County St., Taunton 02780

Southeastern Regional Technical Institute 250 Foundry Street, South Easton 02375

Dinan Regional Technical Institute Stonehaven Rd., Fall River 02723

FALIYUTII/BARNSTABLE AREA

Upper Cape Cod Regional Vocational-Technical High School 148 McArthur Boulcvard, Bourne 02532

BOSTON APEA

Boston Girls Trade High School S6 the Fenray, Boston 02115

Guincy Vocational Technical High School Moodward Avenue, Quincy 02169

WCATINIAL-TECHNICAL SCHOOLS AND OTHER PUBLIC POSTSECONDARY SCHOOLS (CONTINUED)

Waltham Vocational High School 100 Summer Street, Maltham 02154

Meyrouth Yocational Technical High School 1051 Consercial Street, East Meyrouth 02189

Roxbury Corrently College 2401 Mashington Street Roxbury 02119

CONTINITY COLLEGES

SPRINCFIELD AREA

Holyoke Connunity College 170 Sargent Street Holyoke 01401

Springfield Technical Commuty College Armory Square Springfield Oliol

Berkshire Community College Second Street Pittsfield 01202

PITTSFIELD/KORTH ADA'S AREA

REST/NORTHUNDTON AREA

Greenfield Community College 125 Federal Street Greenfield 01301 KORCESTER APFA

Quinsigneond Community College 670 West Boylston Street Norcester 01606

FITCHINITAC/CAPRISER AREA

Mount Yachusett Community College Elm Street Gardner 01440

FRANISCHMI ARLA

LYNN/SALFH AREA

North Shore Community College 3 Essex Street Rerverly 01915

Northern Essex Commity Collego 50 Chadwick Street Haverhill 01832 ANDOVER/LOSTIL ARFA

EURLINGTON/SEDFORD AREA

Middlesex Community College Springs Road Bedford 01730

(CONTINUED)

BROCKTON AREA

COMMENTY COLLECTS

Massasoit Community College Howard Street Kest Bridgewater 02379

Bristol Comunity College 64 Durfee Street FALL RIVER/NEW PERFORD AREA

FALVOUTH/BARNSTABLE AREA Fall River 02720

Bunker IIIII Ceraunity College Rutherford Avenue Charlestown 02129 Cape Cod Community College West Darmstable 02668 BOSTON APEA

Massachusett, Bay Community College 57 Stanley Avenue Matertown 02172

Ht. Ida Jr. College 777 Dedham St. Newton Center 02159:

Lasell Jr. College Auburndale 02166

Institutions other than companity colleges which grant associate degrees

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American International College Springfield 01109

Day Path Junior College 588 Longmeadow Street Longmeadow 01106

PITTSFIELD/NORTH ADA'S AREA

on:

WOERST/NORTHWIPTON AREA

University of Massachusetts Anherst 01002

KOPCESTER APEA

Atlantic Union College South Lancaster 01561

Becker Junior College 611 Sever Street Norcester 01609

Worcester Junior College Norcester

Leicester Junior College 1003 Main Street

Leicester 01524

FITCHBUPG/GAPDNER APEA

none

FRAMINGHAY AREA

none

LYNY/SALEY AREA

Endicott Junior College Beverly 01915

A:DOVER/LOWELL APEA

Herrinack College North Andover 01845

INSTITUTIONS OTHER TIMM COMMINITY COLLEGES MIICH GRANT ASSOCIATE DEGREES

BURLINGTON/BEDFORD AREA

none

BPOCKTON AREA

Dean Junior College 99 Hain Street Franklin 02038 FALL RIVER/NEW BEDFORD AREA

Southeastern Massachusetts University (Public) North Dartmouth 02747

FALMOUTH/BARNSTABLE AREA

one

BOSTON AREA

Acquinas Jr. College of Business 303 Adams Street Hilton 02186

Garland Jr. College 409 Cormonwealth Ave. Boston 02215

> Accuinas Jr. Colloge of Business 15 Kalnut Park Nevton 02155

Bentley College Maltham 02154

Laboure Jr. College 2120 Dorchester Ave. Boston 02124

Grahm Jr. College 632 Beacon Street Boston 02215

> Cambridge Jr. College 49 Kashirgton Avo. Gaabyidge

Chanberlayne Jr. College 128 Cornonkealth Ave. Boston 02116 Fisher Junior College 18 Beacon Street Boston O2116 Franklin Institute of Boston 41 Berkley Street Boston 02116

Newbury Jr. College 921 Loyiston Street Roston 02115

New England Institute of Anatomy, Sanitary Science and Embalning Bosten, 02215

INSTITUTIONS OTHER THAN COMPENITY COLLEGES WHICH CRANT ASSOCIATE DEGREES

BOSTON APEA (CONTINUED)

Newton Jr. College (Public) Wash. Park and Malnut St Newtonville 02160

Suffolk University '41 Temple Street 'Eoston 02114

Northeastern University 360 Huntington Ave. Boston 02115

Puincy Jr. College (Public) Quincy

Mentworth Institute 550 Huntington Ave. Boston 02115 Nheelock College 200 Riverway Boston 02215

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University Consultants, Inc.

PROPRIETARY & INDEPENDENT NON-PROFIF SCHOOLS -- AVOCATIONAL

PROPRIETARY & INDEPENDENT NON-PROFIT SCHOOLS -- AVOCATIONAL

•		D Betty Champion's Dance Studio Kestfield	D Cindy's School of Dance . Westfield	DiG Barbara Druma Hayne Dance Studio 4 School of Gymnastics	D Rosenary's School of Dance				14		nive	DR Renold's Auto Driving School	SD Ucchi-Ryu Karate School	Pittsfield		D Holroyd Ballet School	DR Southern Berkshire Driwing School S Great Barrington	DR Scott's Driving School Adams	
•												,			,		•		
	SPRINGFIELD AREA (CONTINUED) • 4	George Crete Music Center' Holyoke	Hal Lolly Schop, of Dancing Holyoke	McDermott's Driving School Holyoke	Henry Hoguin School of Dance Rolyoke	O'Brien Driving School Holyoke	Scott's Driving School Holyoke	Mrs. Doris F. Reardon, Charm Specialist Holyoke		•	PITTSFIELD/NORTH ADAMS AREA	Fred Astaire Dance Studio Pittsfield	Cantarella School of Dance	Pittsiinid Delugan Ballitoom Dance School	Pittsfield	Jin's Auto Driving School Pittsfield	Merrywood Music School Lenox	Bonnie Puddon Institute for Physical Fitness Stockbridge	
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•	S = Seving			Hassachusetts Driving Center West Springfield	Metropolitan Auto School East Longmeadow	Park Auto School Springfield	Take Judo & Karate Center Springfield	Tracy's Karate Studio • Springfield	Ucchi-Pru Karate Acadeay Springfield	Wilcox Auto School Ludlow	Winchester Auto Shoool	Springriesa Academy School of Mistr	Springfield	Langevin School of Dance Palmer	•	Indian Orchard Michelets Dance Studio	Holyoke Histy Self-Improvement School		
	ics	ing Arts		ĕ	ä	DR	SD	8	SD	SG.	ğ	z	•	۵	. ×	۵	S	80	
•	A = Art G = Gymnstics C = Charm 1. = laneused	m Dance H	SPRINGFIELD AREA	ABC Driving School Springfield	Anita's Dance Studio Springfield	Fred Astaire Dance Studio Springfield	Belmont Driving School Springfield	Carpbell Academy School Chicopee	Caputo School of Music Springfield .	Carol's Dance Studio - Chicopee	Charmaine School of the Dance	Ela Auto School	West Springfield	Fairbank Auto School 'Springfield	Jo-Ann's Dance Studio	Springificate Name Academy of Languages	Springfield Haria's School of Dance	Springfield Mary Anne Studio of Dance Springfield	
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PROPRIETARY & INTEFESTENT NON-PROFIT SCHOOLS

PROPRICTARY & INDEPENDENT NON-PROPIT SCHOOLS .. AVOCATIONAL

		Worcester	R State Auto School	Eleanor: Thompson's Dance Studio Rovistos	-		A Morcester Community School of the Performing Arts Morcester				•		Univ	ersit	Aili's Auto School Fitchburg	American Style Dance Studio Fitchburg	DR Frank's Auto School n Fitchburg	Inc.	,	
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WORCESTER AREA (CONTINUED).	Judo Academy	Grafton	Keating's Auto School Shrewsbury	Karen Labrio Dance Studie	LaPorte Auto Driving Shoool	Norcester	Air. G's Sewing Center Morcester	Pleasant Auto Shcool, Inc. Norcester	Marion Ritacco School of Dancing Worcester	Rose's Dance Studio Worcester	Safety First Driving Academy Morcester	Silve Hind Control Morcester		FITCHBURG/CARDNER AREA	Miss Dee School of Charm Fitchburg	Dale-Cariton School of Dance Athol	Racette's Driving School	Wachusett Driving School Gardner	•	
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										Carey's Auto Driving School Norcester	Carol-Lynn's Dance Studio Whitinsville	Craft Center Norcester	Crossman Driving School Forcester	Defensive Driving School Whitinsville	. Deluxe Driving School Norcester	Naiter Fields Dance Studio Morcester	Ginger Alicandros Auto School. Worcester	Grafton Auto Driving School North Grafton	Honey Felicetti Dance Studio Norcestar	•
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	AMERIT/NORTHANTION .	Benoit's Driving School	Northampton Cumington School of the Arts	Cumaington	Nichols Auto School East Hampton	Northaspton Driving School	O'Rourke's Driving School	Korkhampton	WORCESTER AREA	Doris McGeary Dance Studio Webster	E-Z Auto School Dudley	Nancy Taylor Charm School Norcester	ldeal Driving School Sturbridge	Joan Louise School of Dance Sturbridge	A.H. Dance Studio Korcester	A. Taggarts Driving School Norcester	Aquatic Center Boyiston	Auburn Auto School Auburn	Barkocz-Ross School of Ballet & Dance Boylston	
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PROPRIETARY & INDEPENDENT NON-PROFIT SCINCES -- AVOCATIONAL

PROPRIETARY & INDEPENDENT NON-PROFIT SCHOOLS -- AVOCATIONAL

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	•		•	A	Deane School of Dance	g	Pleasant Auto School * Peabody	
32	ANTINGIAM AREA .	•				Š	Salvo's Auto School	
*	Bay State Auto School	SD	Shotokan Karate Dojo Waynard	.	Formuld for Fitness School or Exercise and Dance	Š	Salem	
		í	. Confidence of the Confidence	=		SD	United Studios of Self Defense	
æ	Deluxe Driving School Southboro	ž	Summer Cristiani Caro Comos. Natich	<u> </u>	Gordon Ballroom Studios Lynn	2	rezuosy Ivan Auto School	
œ	Christo Auto School	۵	Franinghan Ballroom Dance Studio Franingham	A	Midge and Bill Haggett Dance " Education	5	Lynn	
œ	A & A Auto School	*	International Conservatory of		Mariboro	۵.	Lynn Danco Academy Lynn	
:	Franîngham		Husic Katick	۵	Jenkins Dance Studio Peabody	ă	is School of Driving	
Ř.	ABC Auto Driving School Natick	SI	Kingsley Hamor Reading Center Holliston	18	Leigh-Bel Institute for Self Improvement	đ K). School of Driving	III-
•	Acton School of Ballet Nest Acton	۵	Janet Wiles Danco Studio Natick	<	Nontserrat School of Visual Art Beverly	<	nore Design Studio	16
^_	Sharon Ceil School of Dance Marlboro	۵	Bob Perry Dance Studio Hatick	۵	Gene Murray Dance Education Studio	U	Peabody North Shore Fashion Institute	
2	Jean's School of Dance . Hudson	Q	Studio of Ballet Arts Sudbury	. ¹⁰	Horth Shore School of Gymnastics	ä	c. . Chandler's Auto School Newbüryport	
۵	Phyllis Richards Dance Studio Acton	PA.	Nainut Hill School of the Performing Arts Natick	*	O'Brien's Driving School Beverly	۵	Dance Studio	Univa
<u>. </u>				_ K	Peabody Auto School Peabody	0	Gbrdon Ballroom Studios Lynn	rsity
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ENS.	LWN/SALEY APEA .			Avious	AUDMIED / CARET - 2054 •			ult
8 .	A. Taggarts Driving School	80	Bond Auto Driving School Peabody	ž s	Bond Auto Driving School	SI	. Learning Foundations	ants
ć	Mississing Paintee Cabasi	. 5	Charte Auto Driving School	•	Lowell			, J
ž	Gloucester	5	United States of Control Obnited States of Control of C	KO	Chelmsford Auto School Chelmsford	<u>.</u>	Marshall Sisters Dancing Academ Lowell	inc.
â	Authory & Sales Auto School Marbishead	ž	Chef's Agte Driving School Salen	ğ	City Hall Driving School Lowell	š	Herrinac Driving School Tewksbury	
				a •	Denetra School of Dance Lowell	a	Shirley Terrill Studio of the Dance Lowell	ance

A & H Driving School Fall River

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Metronome Dance Studio New Bedford

PROPRIETARY & INDEPENDENT NON-PROFIT SCHOOLS -- AVOCATIONAL

PROPRIETARY & INDEPENDENT NON-PROFIT, SCHOOLS -- AVOCATIONAL

								III-	17		Univ	nesit	y Cor	sulta	nts,	Inc.
	Labonte's Auto School	McKeon Dance School	Attleboro	Pennsvalle Driv-Rite Auto School N. Attleboro	Brockton Auto School Brockton	Gary School of Driving Brockton	Gilberts Dance Studios of Dance Education Bridgewater	deay of Karate	School of Dancing			Modern Driving School North Dartmouth	New Bedford Dance Academy New Bedford	Tony Pacheo Guitar Studio and Rusic Store New Bedford	Stella Pifta Dance Studio	Al Torran Driving School New Bedford
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A HEAR WATER	liszel Boone Dance Studios	Canton Cindvis School of Dance	Mansfladd	Martin Dyer Driving School Mansfield	A. Taggarts Driving School Brockton	Abington Driving School Abington	Nid-Cape Driving School Rockland	Doris Cross Corbett Plyrouth	North River Auto School Narshfield		FALL RIVER/NEW BEDFORD AREA .	A-1 Driving School New Bedford	Jose de Costa Music School New Bedford	K & F Music, Inc. New Redford	Luso-American Oriving School New Bedford	Hary's Auto Driving School New Bedford
5	a	-	2	DR	g	DR	R	۵	ä	ر :	FAL	DR	×	x	DR	ğ
	Learning Foundations	Lawrence He's Tae Kon Do School of	Korean Karate	Little-Professionals Dance Studio North Andover	Herrinack School of Diving, Andover	Herrimack Valley Academy of Dance Andover	Michael's Auto School Lawrence	Outward Bound, Inc. Andover	Pennise Art Studio Lawrence	Stage Door Studios of Dance and . Acrobatics Palmer	South Lawrence Auto School	Lexience Tower Hill Auto School				
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	ANDOVER/LONELL AREA (LUXIIMMEN) D Star Styled Dance Classes	Lovell	Mannalancit Kite-nay Driving School . Lovell	Westford Auto School Westford	Milmington Driving School Milmington	Chandiers Auto School Haverhill	McNally School of Dancing Haverhill	Michael's Auto School Haverhill	Lorraine Reynolds Dance Academy	Aina Jansons Ballet Academy Andover	Reth's Dance Studio Lawrence	D & G Auto School . Methuen	Lawrence Auto School Lawrence		EUKLINGTON/BEDFOND AREA A Leslee's Ceranic Studio	Kesaing
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PROPRIETARY & INDEPENDENT NON-PROFIT SCHOOLS -- AVOCATIONAL

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۵	Delight's School of Dancing Fall River	DR	Will's Auto School Fall River	ğ	A & B Auto School Norwood	ă	Ashmont Auto School Dorchester	
g K	Fall River Driving Academy Fall Piver	æ	A. Taggarts Driving School Taunton	ĕ	A. Taggarts Driving School Doston	8	B & T Auto School Dorchester	
sı	Fall River Keading Institute Fall River.	۵	Cindy's School of Danco Hansfield	u	Academia School of Languages Cambridge	c	Babushkina School of Ballet . Boston	
v	Farrington's School for Sewing Fall River	S S	Martin Dyer Driving School Mansfield	ၒ	Academy of Gymnastics and Perceptual Motor	g .	Ed Baker Auto School Needham	
«_	Holy Crest Cerabic Studio Sozerset	DR	Hartin Dyer Driving School Taunton	۵	noises <i>ey</i> Academy of the Dance East Aceton	S S	Bay State Auto School Brookline	
10	Hass. School of Skin Diving Fall River	ă	Southeastern Driver Ed. School Middlaboro	¥	Actor's Workshop	S	Bay State Judo Club Hewton	
80	A. Paira Auto School Fall River	a	Tsunton School of Ballet Taunton	SD	ouston Aikido of New England Cambridge	-3	Berlitz School of Languages Wellesley	
, a	Russ Whalan Dancing School Fall River			×	All Newton Music School Newton	= 1	Bernard Husic Studios II Brighton	
				∡ .	American Center for the Perforaing	K	West Roxbury	
FALM	FALMOUTH/BAFWSTABLE AREA			SI	American Reading Institute	a	Boston Ballroom Dance Studios Boston	
×	Cape Cod Conservatory . Bamistable	0	Carousel Ballroom Dance Studio Hyannis	_ g	Arlington Andrew Auto School		Boston-Brookline Collaborative Center	
۵	Cape Cod School of Ballet and Theater Hyannis	S	Frasier School of Social Graces Hyannis		Boston	£	Boston School of Ballet Boston	
ä	Cape Cod Driving School Hyannis	۵.	llynunis Ballet Academy Hyannis	.	Anna Garitt School of Dancing Reymouth	u	Boston School of Modern Languages · C. Boston	
Δ_	Cape Cod School of Ballet and Theater South Yarzouth	%	Silva Mind Control Mashpee	ğ	Arlex Auto School Arlington	×	Brookline Music School G	
				×	Arlington Academy of Music Arlington	۵	Stanley Brown Danes Studios	
		•		DA	Arrow Auto School Hedford	۵	Carbridge School of Ballet nauc	
	51			۰, ۵	Arthur Murry Dance Studios Boston	×	r Chamber Music	

Inc.

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PROPRIETARY & INDEPENDENT NON-PROFIT SCHOOLS -- AVOCATIONAL

PROFRIETARY & INDEPENDENT NON-PROFIT SCHOOLS -- AVOCATIONAL

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1	200			•	505TO	AREA (CONTINUED)		•	
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Cabridge losse Study Center Rectan	ă	Cleveland Circle Auto School	ă	Garbers Auto Schools	x	Malden School of Music Malden	۵	Jean Paige School of Dance Brookline	
Commity Music Center of Boaton Diagonal Content of Boaton Diagonal Center of Cen	SI	herton College House Study Center Casbridge	Ö	Garbers Auto Schools .	Δ	Haryanne's School of Dance Dorchester	Ð	Paulette's Ballet Studio Heedham	
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Evelyn Wood Reading Dynamics SD Institute of Okinowan Karate Boston Evelyn Wood Reading Dynamics SD Institute of Okinowan Karate Boston Oulney SD Institute of Okinowan Karate Boston Oulney SCHOOL	ă		· *	rvatory of Hus	۵	Hovement Laboratory, Inc. Boston	۵		Canc
Exploring the Arts S Joan A. Fucci Sewing Studio SP New England School of Astrology D Rul Rose School of Dancing Needhan Natertoon D Joy of Hovement Center School Dancing Studio Spanica Plain	SI	Evelyn Mood Reading Dynamics Boston	S	boston Institute of Okinowan Karate Outney	So	N.E. China Martial Arts , ssociation Boston	۵		1 h.m.
Fairview Driver School D Joy of Movement Center Cambridge	«	Exploring the Arts Needhan	w	. Fucci Sevin g ovn	SE	New England School of Astrology Arlington	۵		te. To
	8		6	Joy of Hovement Center				c.	c.

PROPRIETARY & INDEPENDENT NON-PROFIT SCHOOLS -- AVOCATIONAL

NOSTON APEA (CONTINUED) .

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Rusty's Auto School Roxbury	School of Contemporary Husic SE Brookline	Scientology of Carbridge Carbridge.	South Shore Conservatory of Music D	Sullivan Language Schools Boston	Theatre Two Acting Norkshop G Boston	Thompson Bros. Auto School
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LICENSED PRIVATE CYPELSPYNDINGE SCHOOLS IN MASSACHUSETTS

Lee Institute 310 Harvard St.

Brook! inc

Berklee Press Publications
1140 Boylston St.
Boston
Commer Professions Education, Inc

Computer Professions Education, Inc. 14 Beacon St. Boston

Norcester Education for Management 335 Nestern Ave. Brighton

fross Acadeny 70 Madison St. Framingham Civil Service School 535 horcester Pd. Framingham

Hall Institute of Real Estate 341 hashington St. (Pt. 53) Norvell, !!ass.

Hewlett-Packard Company
jrs Wyryn S.,
Nalthio, Hass.

Lacy Sales Institute 80 Union St. Nexton Centre, Mass.

Nantucket School of Needlery 2 India St. Nantucket Island

National Prepiratory Institute
3.58 Sweetsar ferrace
Lynn
New England School for Investigation
123 Highland Ave.
Needhan Heights

Radio I lectrenics Television School 9i.5 Consourcalth Ave. Roston Sales Training of Boston
8.4 Buylston St.
Brookline
The Schoul of Professional Drafting
c/o Stephen Poliberg, Eso.
28 State St.
Boston

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UNCLASSIFIED SCHOOLS (CONT.D)

UNCLASSIFII D SCHOOLS	Due to insufficient information, the following schools have not yet been classified by type
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		Fashion
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Avon Correge Carbridge	Doston	Feriniou
Mary Brooks School Boston	Comptometer Institute Boston	Tuffer G
Cades CPA School	Nathaniel Hauthorne College	Boston
Boston	Career Educational Training Center	Nagnifia Brooklin
Ponohue Civil Service School Poston	Norcester	
Farr Academy	Kard Business School Norcester	Rokers M
Cambridge Full Circle School	School of Medical Technology Pittsfield	Lamore "
Somerville Griffith School of Speech	Anity College Cardner	Betty for Brooklin
Sozerille Jacqueline Enterprises	Concay School of Landscape Design Concord	
Lanton Lame14-Lubt CFA School Rockon	Professional School of Braodcasting Springfield	
Living and Learning Schools	. Kestern Mass, Broadcasting School Apakam	
Todern School of Fashion Bestgn Boston	Boston Training Academy Springfield	. –
Nasson College Springfield	Business Flucation Institute . Springfield	
Stenutype of Boston Boston	School for Creative Learning Sharun	
Suburban Business Schools, Inc.	A-1 Hodel Information Poston	
TAD Institute Beserly	Academy of Physical and Social levelopient Nexton	

ashion Signatures	Grad's Charn and Modeling School
rookline & Maltham epinioue Finishing and Modeling School	Fashion Yodel Associates Yariborough
. Poxbury uliet Gibson Professional School for Konen oston	Porothy Caterino Fashion Models 4 Charn
agnifiaue Vodeling Agency reokline	Pebby Conroy Charm and Modeling School Lovell
opers Madels oston	Elegante Charm and Modeling School Lowell
amore "ndeling Agency and Studio proester	Gloria and Mayo School of Charm and . You'll Mr.
etty Goodman's Motels Korkshop rookline	nintifop .

For ite Mayo School of Charm and Modeling Artleboro

Miss Allen Back Bay Finishing School and Agency Boston

Travel School of America Brookline

Gillis Business School Nor-cod

III.B. GEOGRAPHIC DISTRIBUTION OF VOCATIONAL SCHOOLS

Proprietary Schools-Vocational

Independent Non-Profit Schools-Vocational

Vocational-Technical Schools and Other Public Postsecondary Schools

Community Colleges

Institutions Other Than Community Colleges Which Grant Associate Degrees

The following maps show the locations of institutions across the State of Massachusetts.

Map #1 shows the distribution of vocational proprietary schools. These institutions are clearly concentrated in the metropolitan areas, particularly Roston. This concentration may be explained by several factors. First, competition from public institutions has until recently been minimal in the Roston area. Secondly, some specialty schools such as florist and cooking schools must be in large centers of population to draw enough students.

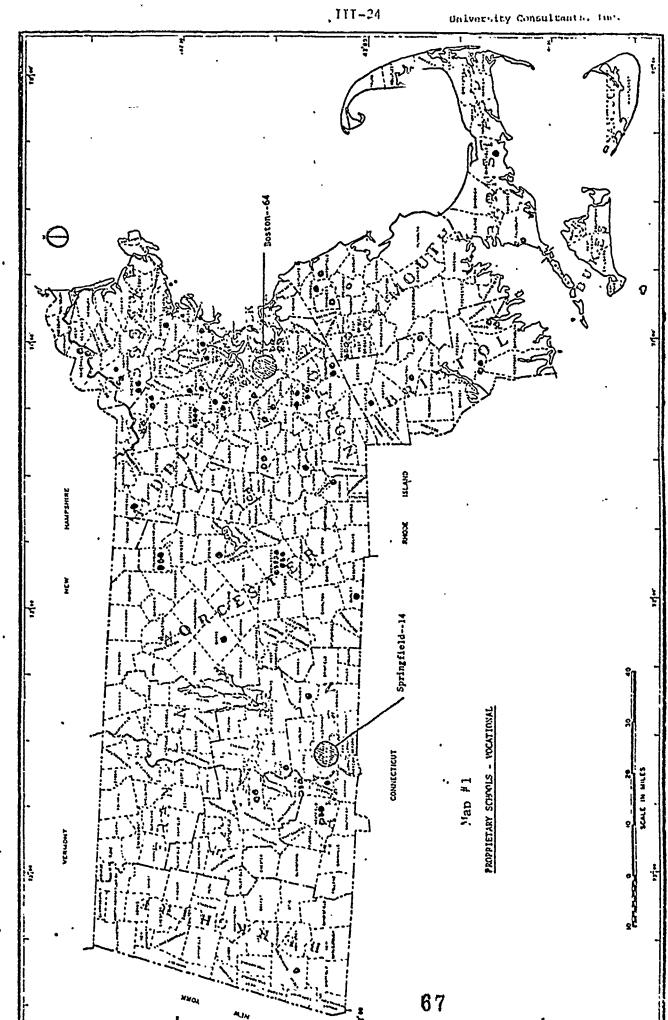
Map #2 shows the distribution of independent non-profit schools. These schools are mainly in nursing and other medical subjects and are found to be even more concentrated in metropolitan areas.

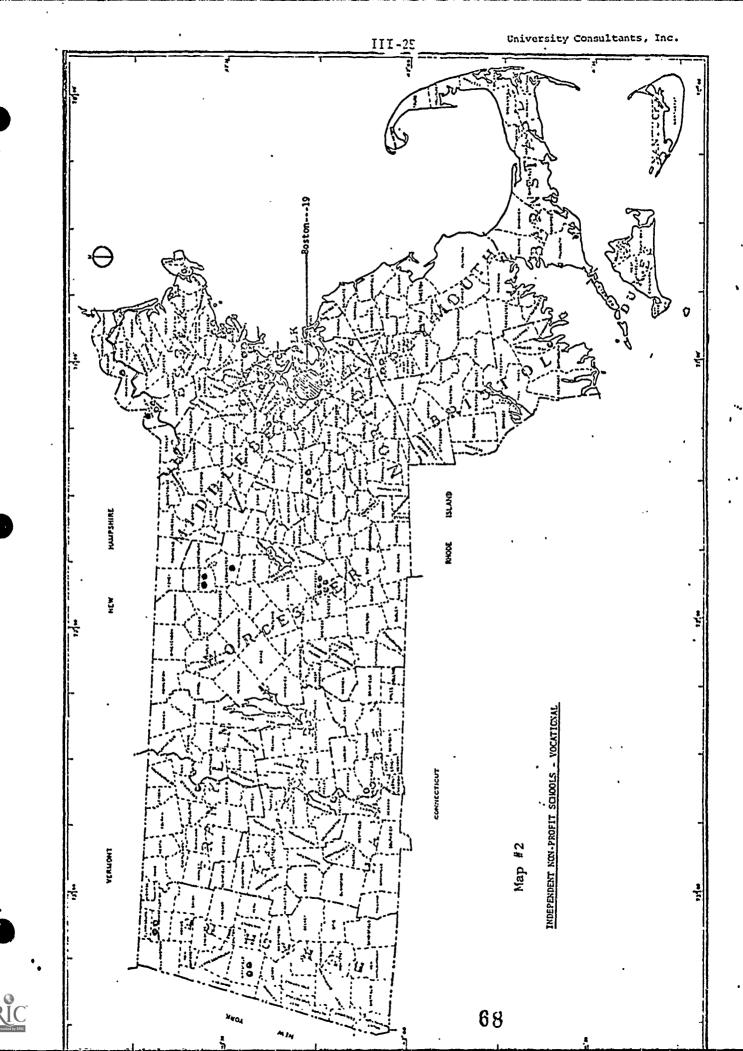
Map #3 shows the distribution of public regional vocational-technical schools and other public schools with postsecondary programs. They appear to be randomly spread across the State, and significantly not concentrated in Boston.

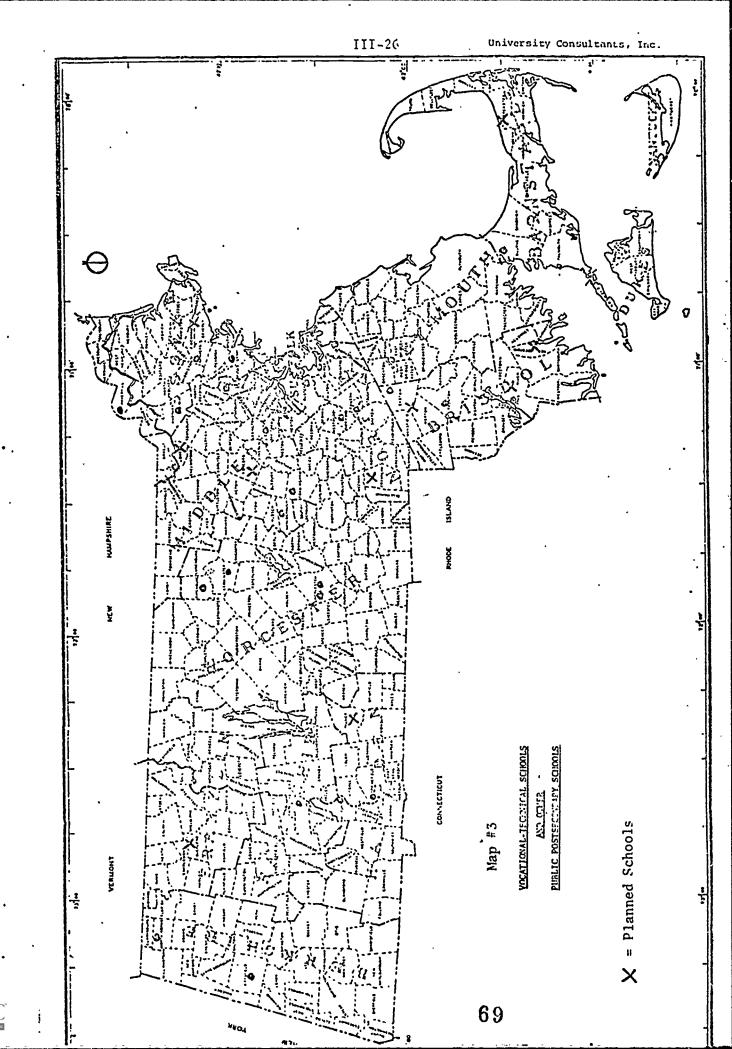
Map #4 shows the distribution of community colleges. They are geographically distributed across the State to provide access for all centers of population.

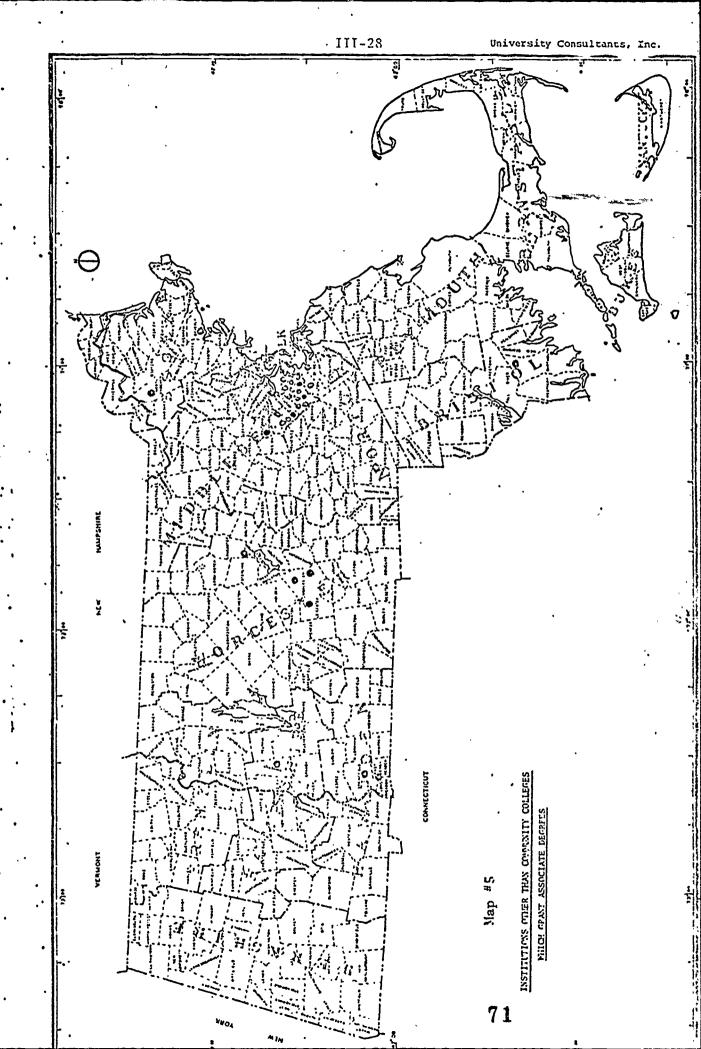
Map #5 shows the distribution of institutions other than community colleges which grant Associate degrees. They are concentrated in metropolitan areas where private institutions have typically operated.











III.C. INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS

Inventories of postsecondary level vocational programs offered in 1972-73 have been prepared for proprietary schools, independent non-profit schools, vocational/technical institutes and other public schools offering post-secondary programs, community colleges, and other degree-granting institutions for each of thirteen geographic service areas across the State. Programs are keyed as leading to an associate degree, diploma, or certificate: some proprietary business schools which have closed are noted as well as new voc/tech institutes planned to open; planned programs in community colleges are indicated by an asterisk; and proprietary cosmetology schools under contract with public high schools are footnoted.

The following conclusions may be drawn from the inventories by type of institution:

Proprietary schools specialize primarily in one of the following areas: business and commerce, trade and technical, cosmetology and flight schools, while non-profit schools are primarily in health services. In general, they offer only one or two specialties.

Voc/tech institutes and other public school programs are primarily in health services and trade and technical areas, to a lesser extent in business areas.

Community colleges offer a comprehensive set of programs across all subject areas. Exceptions to their coverage are: real estate, travel and modeling, cosmetology, and flight. They are the only institutions which offer public service programs (law enforcement, fire science, and others).

Other degree-granting institutions offer programs across most subject areas, but within each area are less comprehensive than community colleges.

The following conclusions may be drawn by subject area:

Business subjects are covered primarily by proprietary schools, community colleges, and other degree-granting institutions. Some subjects such as real estate and travel and modeling have been offered only by proprietary schools, although Bunker Hill Community College is planning a real estate program.

Trade and technical subjects are covered by proprietary schools, voc/tech institutes, and community colleges. Proprietary schools are somewhat more likely to cover art, fashion, cooking, and floral design courses than are public schools in each area.

Health services are covered by independent non-profit schools, voc/tech institutes, community, and other degree-granting institutions.



Cosmetology and flight courses are primarily in the proprietary schools, although some voc/tech institutes have programs in cosmetology and Springfield Tech. CC is planning an associates degree program.

Public service courses such as fire safety and law enforcement are almost entirely in the community colleges.

Proprietary schools operate in a number of special programs included under other: bartending, tractor trailer driving, electrology, optical technology. These are one-of-a-kind schools.

Community colleges offer a variety of new or more specialized fields: child care, recreation and leadership, nursing home administration, bio-medical instrumentation, etc.

The following conclusions may be drawn by geographic area:

Each area has a mix of proprietary, independent non-profit, voc/tech, community college, and other schools.

Community colleges offer a wide variety of courses within each area, while other schools generally specialize in one or two subjects,

Boston has the greatest diversity of programs in the proprietary school sector and 3 community colleges (2 new, just this year) are beginning to compete with these programs. Other degree-granting institutions also have a wide variety of programs in the Boston area.

The following conclusions may be drawn by type of certification:

Proprietary schools and independent non-profit schools offer diplomas and certificates; voc/tech institutes offer certificates. Community colleges and other degree-granting institutions generally grant associate degrees, although they have some certificate programs.

Blue Hills Pegional Technical Institute now offers the associate degree in 4 areas.

Proprietary schools with two year programs may now apply to the Board of Higher Education for degree-granting status.

Examples of coordination are:

Public schools in several cases contract for use of facilities of proprietary cosmetology schools.

Voc/tech institutes and community colleges cooperate in facilities sharing-generally use of better facilities at the voc/techs.



EXPLANATION OF PROGRAM INVENTORY TABLES

Diploma vs. Certificate

According to the Department of Education, there is very little distinction between a Diploma and a Certificate. In the past, Certificates were awarded for successful completion of programs lasting one year or less and Diplomas for programs lasting two years. Today, there is virtually no difference. For example, the Lee Institute of Real Estate which offers a 10 to 15 class hour course, awards a diploma; and the R.E.T.S. Electronics School which offers a two year program, awards a certificate. Thus, when reading the program inventory tables, "Diploma" and "Certificate" can be considered to be synonomous.

Included under "Other" Business and Commerce

Hotel and Lodging Marketing General Merchandise Court Reporting

Included under "Other"

Apparel and Accessories Environmental Fealth Assistant Medical Pecords Technology Bio-Medical Instrumentation Respiratory Inhalation Therapy Mental Health Technician Rehabilitation Assistant Medical Laboratory Assisting Inhalation Therapy Nursing Home Administrator Child Care Communications Public Administration **Human Services** Recreation and Leadership Teacher Aide Library Science Agricultural Mechanics Agricultural Production Agricultural Resources Animal Science Natural Resources Turf Management Bartending Tractor Trailer Driving Electrology Optical Technology

Planned Programs - indicated by *



INVENTORY OF PROGRAMS

Inventory Of Postsecondary Level Vocational Programs Offered In 1972-73 In Proprietary, Non-Profit At J Public Institutions

Springfield Area

Pittsfield/North Adams Area

Amherst/Northampton Area

Fitchburg/Gardner Area

Worcester Area

Framingham Area

Lynn/Salem Area

Andover/Lowell Area

Burlington/Bedford Area

Fall River/New Bedford Area

Brockton Area

Falmouth/Barnstable Area

Boston Area

INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Springfield Area

<u>KEY</u>	BUSINESS AND COMMERCIE	TRADE & TECINICAL	HEALTH SERVICE	
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PROPRIETARY SCHOOLS	Contraction of the Contraction o	Tado Technical Tashion Contral Cooking Contral	Mussing County Posting Security County Count	COSITION STATE TO THE
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Holyoke Business School	p.			C.
Peal Estate Salesman's School	D	 		
Poherts Aviation				c
P. Cassassa Feal Estate School	Δ .		 	-
Allied Construction Trng. Corp.		D	 	
Brom's Barber School (Sp)			 	C
Grogan Peal Estate School	D		 	
La Baron Hairdressing School			 	
Central Travel School	<u>D</u>		 	C
Bastending Sch. of Nixology		<u> </u>	 -	
C. Pussell Sch. of Charm/Hodel.	Δ			
Mansfield Acad. Beauty Culture	В		ļ	
Smith & Wesson Academy				C
-Sadak & Lukas Peal Estate Sch.	0		 	<u>e</u>
Thomas Real Estate School				
United Tech. Schools	<u></u>			
Sidney Baron Real Estate School		ъ		
	D .	 	· · · · · ·	
Barnes Aviation, Inc.				C
East. Atlantic Heavy Equip. Trns Business Ed. Institute		δ		
	D D			
Vocational Ed à Trng Corp				C
American Vocational Training		7		
INDEPENDENT NON-PROFIT SCHOOL	ıs			
. Hôlyoke Hosp Sch of Nursing			D	
Prex. Hosp Sch of X-Fay	•		٥	
Hercy Hosp Sch of X-Ray			D	
Springfield Hosp Fed Ctr S of N			۵	
Wespern Has's, Schl. for PN			G	
VOC/TECH INSTITUTES_AND OTHER PUBLIC SCHOOLS OFFERING POSTS	R SECONDARY PROGRAMS			
Holyoke Trade High School			C	
Roger L. Putnam Voc-Tech H.S.			C	C
י כישייטאודץ COLLEGES				,
Holyoke Community College	A A A A A	Γ Δ	T 2	
Springfield Tech. Comm. College	AAA A A	A .	AAA	H 4
OTHER:		A A	A C,A C,A	CA* A A
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American International College Bay Path Junior College	A A		A	A



Planned:
Pathfinder Regional Voc/Tech,

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INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Pittsfield/North Adams Area

•	BUSINESS AND COMMERC	TRADE & " TECHNICAL	HEALTH SERVICE	
A-Associate Pegree D-Diplona C-Certificate	Secretaria i Generalia de Comunitaria de Centra de Comunitaria de Centra de	The Moterna Trade	100 115, 110, 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Control (* 2. * 2. * 1. * 2. * 1. * 2. * 1. * 2. * 1. * 2. * 2
PROPRIETARY SCHOOLS				
Hiller Airport Sch. of Aviation				C
Berkshire Aviation Enterprises				C
INDEPENDENT NON-PROFIT SCHOOL	s		<u></u>	***
N, "Adons Hosp Sch of X-Ray			D	
N. Adims Hosp Sch of Ancerhasia			D	
Berkshire Hosn Sch of Anesthesis			٥	
St. Lukes Hosp Sch. of Nursing				<u> </u>
YOC/TECH INSTITUTES AND OTHER PUBLIC SCHOOLS OFFERING POSTS	ECONDARY PROCRAMS	######################################		• • • •
C.H McCann Regional Tech. Inst		C	CCC	C
Pittsfield Vocational High Schl			Ç	
COPPANITY COLLEGES				
-Berkshire Community College	A A A A	A A A	A	A A
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INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Amherst/Northampton Area

•	BUSINESS AND COMMERCE	TRADE & TECINICAL	HEALTH SERVICE	
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PROPRIETARY SCHOOLS				
City Aviation, Inc.				C.
Cooley-Dickinson Hosp. X-Ray Sch	•		۵	
Franklin Airways				૯
INDEPENDENT NON-PROFIT SCHOOLS				
Franklin Count. Pub Hosp S of X	•		. 0	
VOC/TECH INSTITUTES AND OTHER PUBLIC SCHOOLS OFFERING POSTS	ECONDARY PPOCRAMS			• •••
Smith's Vocational & Agr. H.S.			C	
COMMITTY COLLEGES				
Greenfield Community College	A A A	A A	Α	A P
▲ OTHER			, , , , , , , , , , , , , , , , , , , ,	
University of Hassachusetts				Â
Planned:	1 a , notes que contrarent			
Franklin County Region	al Voc./Tech.			

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OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Fitchburg/Gardner Area

<u>kr.y</u>	Busin	ESS AND COM	RCE	. TRADE & TECHNICAL		HEALTH SERVICE		
A-Associate Pegreo . D-Diploma C-Certificate	Seretaria i neres	To the state of th	They bolding	Pechalest Are Photography Passion Design	Positive Forms Destra	Hodical Contain	Charles And Per	Pulic Sevices
. From Figure State Stat								
Fitchhurg Aviation, Inc.								<u></u>
Henri's Schl. of Hair Design	•						C	C
Hunter Aviation Corp.						•	<u> </u>	C.
. Indebendent non-beolit echoof	s .			·		- :	**	
Burbank Hosp Sch of Nursing					· · · · · · · · · · · · · · · · · · ·			
Burhank Hosp Sch of X-Ray					D			
Leominster Hosp Sch of Nursing						۵		
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. VOC/TECH INSTITUTES AND OTHER PUBLIC SCHOOLS OFFERING POSTS	ECONDARY PROGRAMS					·		
Leoninster Vocational High Schl				\overline{c}	10			
Montachusett Peg. Tech. Inst.				<u> </u>	C			
COMMUNITY COLLECES -	• . •				<u> </u>	<u> </u>		
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OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Worcester Area

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INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

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Melrose Reauty Academy (1)					C
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INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFEPED IN 1972-73 IN PROPRIETARY NON-PROFIT AND PUBLIC INSTITUTIONS

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INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Fall River/New Bedford Area

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Aviation Career Institute	-	D			D
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OFFERED IN 1973-73 IN PROPRIETERY, NON-PROFIT AND PUBLIC INSTITUTIONS

Falmouth/Barnstable Area

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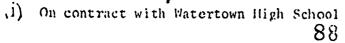


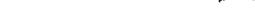
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INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Boston Area (Page 1)

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Dale Acad, of Hairdressing	5,0			
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Miss Kelly's Sch. of Electrology	D			
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OFFEPED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Boston Area (Page 2)

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Boston Area (Page 3)

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Hilton Hosp Sch of X-Ray Tech		 	10	
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INVENTORY OF POSTSECONDARY LEVEL VOCATIONAL PROGRAMS OFFERED IN 1972-73 IN PROPRIETARY, NON-PROFIT AND PUBLIC INSTITUTIONS

Boston Area (Page 4)

A-Associate Pegreo D-Diploma C-Cortificate INDEPENDENT NON-PROFIT SCHOOL	Secretary	Accounting OFFICE	Rest Estate Manage	Travel Chocy,	<i>a</i> .	Anderson A	Mussing & Doster	entej	T. By Pech.	
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Ouincy Vocational-Technical II.S	 	C			C		C	c c		
Waltham Vocational-Tech. H.S.	 						C			
Neymouth Vocational-Tech. H.S.	l				C.		<u> </u>			
COMMUNITY COLLECES			•				•	• • • •		
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Massachusetts Bay CC	AA		A	A	A		A	A		A A
Roxbury CC	A A	<u> </u>	A	A	<u> </u>	_A	<u> </u>		· F	A* A
OTHER		••								•
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Acquinas Jr. College of Bus. (N)					↓ _		<u> </u>			
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III.D. ENROLLMENTS IN POSTSECONDARY VOCATIONAL PROGRAMS AND GRADUATES OF PROPRIETARY SCHOOLS

Total Number Of Students Enrolled In Postsecondary Level Vocational Programs In Massachusetts, By Subject

Total Number of Students Enrolled In Postsecondary Level Vocational Programs in Massachusetts, By Area

Summary of Enrollments And Graduates In Proprietary And Independent Vocational Schools by Category Of School

Enrollments And Graduates In Proprietary And Independent Vocational Institutions By Type And Length of Program

Number Of Proprietary And Independent Schools In Massachusetts, Enrollments and Number Of Graduates By Area





TOTAL NUMBER OF STUDENTS ENPOLLED IN POSTSECONDARY LEVEL VOCATIONAL PROGRAMS IN MASSACHUSETTS, BY SUBJECT

							I
TOTAL	29, 352	000 69	7,959	2,834	13,865		. 010
ОТНЕК	3,035		ž 1	390	1,895	E D	11,320
COSPETOLOGY (1,511		2 1	92	24	COMPILED	. 1,627
NEDICAL & NEALTH	1,118	,	5,832	1,362	1,990	NOT YET	10,302
TPADE & TECHNICAL	13,053		1,547	773	3,469	DATA	18,842
BUSINESS & OFFICE	10,635		580	217	6,487	•	17,919
	PROPPIETARY SCHOOLS	CORRESPONDENCE SCHOOLS	INDEPENDENT NON-PROFIT SCHOOLS	VOC/TECH INSTITUTES AND OTHER PUBLIC SCHOOLS OFFERING POSTSECONDARY PROGRAMS ¹	Community colleges ²	OTHER DEGREE-GRANTING	TOTAL

Intals from "assachusetts Department of Education's Enrollment Data FY 1972 by Program for "Postsecondary" Programs. Schools offering these programs are different for FY 1973 but enrollment data has not been updated.

(excluding Other Degree-Granting)

Protals from "assachusetts Department of Education's Enrollment Data FY 1972 by Program for "Postsecondary" and "Adult Data for Poxbury Cormunity College and Bunker Hill Community College is for Fall, Supplementary" programs.

TOTAL NUMBEP OF STUDENTS ENPOLLED IN POSTSECONDARY LEVEL VOCATIONAL PROGRAMS IN MASSACHUSETTS, BY APEA

TOTAL	29,352	6,000	7,959	2,834	13,171		60,010
BUSTON	19164		4381	336	1741		25622
PALMOUTH/ BARNSTABLE	207		:	20	488	ļ ·	745
TALL RIVERY	190		678	206	670	D	1744
- BEOCKTON	773		198	786	524	ILE	į
BURLINGTON/ BEDFORD	2026		20	8	174	O M P	2222 2281
LOWELL ANDOVER/	850		337	461	830	T C	2478
LYNN/SALE!	1313		572	112	1719	T Y E	3716
МАНЭИІМАЯН	563		153	11	1	о 2	727
CARDNER FITCHBURG/	311		296	88	385	T A	1080
MORCESTER	823		646	421	1127	- D A	3017
AMHERST/ NORTHAMPTON	147		!	43	642 1127	!	832
PITTSFIELD/ MORTH ADAMS	311		174	203	588		1276 ting)
SPRINGFIELD	2674		504	115	4979		8270 e-Gran
	PROPRIETARY SCHOOLS	COPPESPONDENCE SCHOOLS	INDEPENPENT NON- PROFIT SCHOOLS	WOC/TECH INSTITUTES & OTHER PUBLIC SCHOOLS OFFERING POSTSECONDAPY PPOCPANGI	COMMINITY COLLEGES ²	OTHER DEGREE-GRANTING	TOTAL 8270 1276 (excluding Other Degree-Granting)
		•		94			

1 Totals from Massachusetts Department of Education's Enrollment Data FY 1972 by Program for "Postsecondary" programs. Schools offering these programs are different for FY 1973 but enrollment data has not been updated.

²Totals from Massachusetts Department of Education's Enrollment Data FY 1972 by Program for "Postsecondary" and "Adult" Supple cutary" programs. Pata for Roxbury Community College and Bunker Hill Community College is for Fall, 1973.

SUMMARY OF ENROLLMENTS AND GRADUATES IN PROPRIETARY AND INDEPENDENT VOCATIONAL SCHOOLS BY CATEGORY OF SCHOOL

Category	Number Enrolled	Number of Graduates
Business & Office	11,215	7,124
Medical & Health	6,950	2,912
Trade & Technical	14,800	6,334
Cosmetology	1,511	1,042
Other Institutions	3,035	2,622
TOTAL	37,311	19,934
Correspondence	6,000	
TOTAL	43,311	*
Of Other than Correspondenc	e Schools:	
Proprietary Schools	29,352	17,259
Independent Schools	7,959	2,675

Note: In cases where numbers were not available, estimates were made.

ENROLLMENTS AND GRADUATES IN PROPPIETARY AND INDEPENDENT VOCATIONAL INSTITUTIONS BY TYPE AND LENGTH OF PROGRAM

	Business and Office	Medical and Health	Trade and Technical	Cosmetology	Other Institutions	TOTAL
ENROLLMENTS IN 1972	-73 ACADEM	IC YEAR				
Less than 3 mos.	3445	-	. 869	•	-	4314
3 to 6 mos.	570	-	. 1177		-	1747
6 to 12 mos.	1080	32	1615	1436	-	4163
1 year	1893	435	105	· -	-	2433
1 to 2 years	2685	960	7871	75	3035	14,626
2 years or more	1542	5523	2963	•		10,028
TOTAL	11,215	€950	14,600	1511	3035	37,311
		•			•	•
GRADUATES IN 1972-7	3 ACADEMIC	YEAR				
Less than 3 mos.	325 7	~	839	-	-	4096
3 to 6 mos.	350	-	1010	-	•	1360
6 to 12 mos.	694	17	708	1004	_	2423
1 year	1128	355	84	•	-	1567
1 to 2 years	1223	701	2460	38	2622	7044
2 years or more	472	1839	1133	-	-	3444
TOTAL	7124	2912	. 6234	1042	2622	19,934

NUMBER OF PROPRIETARY AND INDEPENDENT VOCATIONAL SCHOOLS IN MADDACHUSETTS ENROLLMENTS AND NUMBER OF GRADUATES BY AREA

BUSINESS & OFFICE	Springfield	Pittsfield/ North Adams	Amherst/ Northampton	Korcester	Fitchburg/ Gardener	Fromingham	Salem/Lynn	Andover/ Lowell	Burlington/ Bedford	Brockton	New Bedford/ Fall River	Falmouth/ Barnstable	Boston	тотаі.
Number of Schools Number Enrolled Number of Graduates MEDICAL & HEALTH	11 1026 699		0	4 310 202	-	500 340	540	350	2 160 132	3 210 150	1 390 110	1 70 63	7659	11215
Number of Schools Number Enrolled Number of Graduates TRADE & TECHNICAL	7 504 180	4 174 66	1 10 4	5 583 183	296 94 -	163	578	_	2 20 8	5 218 92	3 296 94	0	50 3727 1753	6951
Number of Schools Number Enrolled Number of Graduates COSSETTOLOGY	7 1128 713	0	-	1 328 131	0	0	400	· 0	2 1297 511	2 59 53		0	34 11388 4626	14601.
Number of Schools Number Enrolled Number of Graduates OTHER INSTITUTIONS	3 109 74	1 37 25	0 - -	3 108 75	1 37 25	1 36 26	3 110 76	5 182 128		2 73 51	5 182 128	0 - -	18 637 434	42 1511 1042
Number of Schools Number Enrolled Number of Graduates TOTALS	3 411 357	2 274 238	1 137 119	1 137 119	274 238	1 17 N/A	2 257 227	2 274 238	4, 569 491	3 411 357	0	1 137 119	1 137 119	23 3035 2622
Number of Schools Number Enrolled Number of Graduates	31 3178 2023	7 485 329	2 147 123	14 466 710			22 1885 1119		10 2046 1142	15 971 703	9 868 332		132 23548 11844	272 37311 19934

Note: In cases where numbers were not available, estimates were made.



HII.E. STATE LICENSING REQUIREMENTS AND APPLICATION FOR DEGREE-GRANTING AUTHORITY FOR PROPRIETARY AND INDEPENDENT SCHOOLS

In Massachusetts, licensing requirements vary considerably by type of institution. The following types of schools will be considered in the discussion of licensing: Private Trade Schools, Private Business Schools, Correspondence Schools, Nursing Schools, Cosmetology Schools, Barber Schools, Tractor Trailer Schools, Electrology Schools, Schools of Dental Assistance, Schools of X-Ray Technology, and Flight Schools.

Private Trade Schools: 40 currently licensed

Private trade schools are licensed by the Massachusetts Department of Education, and the licenses are renewed annually. To apply for a license, a private trade school must fill out an application asking about the organization of the school, the faculty and their salaries, admission reouirements, guidance and placement, diploma and certificate requirements, grading and attendance requirements, costs to students, hours for each course, other fees, school calendar, equipment inventory, name and number in each course. The school must also submit personal data forms for the teachers which describe their trade, subject taught, and background. The reason for this is to find out whether they have had teacher training. if not, it will be suggested that they get some. A representative from the Penartment of Education makes a visit to the school, and the Department of Public Safety and the Fire Department make inspections of the facilities. The school is also required to submit financial statements to the Department of Education for review. There is no bond requirement for private trade schools. The procedure for application is repeated every year for renewal approval.

Private Business Schools. 46 currently licensed

Private business schools are also licensed by the Department of Education and their licenses are renewed annually. As with the private trade schools, they must submit an application form which describes the training and experience of the instructors, the facilities and equipment of the school, the form and content of the courses, the fields of instruction offered by the school, and the form of any contract to be executed by a particular student. The school must prove financial eligibility before applying for a license and must furnish a bond in the amount of \$25,000. All advertising must be approved by the Department of Education. Each course of instruction is considered and approved separately. The schools are visited by representatives of the Department of Education and the facilities must also be inspected by the Department of Public Safety and the Pire Department. As with the private trade schools, application must be made each year.

Correspondence Schools (located in Massachusetts): 16 currently licensed

The Massachusetts Department of Education also licenses correspondence schools which are located in Massachusetts. As with the trade and business schools, the correspondence schools must submit application forms detailing personal data on the teachers, management data, and a financial statement.



They are required to furnish a bond in the amount of \$2,000 and visits to the schools are made by representatives of the Department of Education. Licenses for correspondence schools are also renewed annually.

Nursing Schools

The Massachusetts Board of Registration for Nurses approves all nursing schools. In order for a person to take an exam for registration as a professional nurse, he/she must be a graduate of an approved school. A school applies for initial approval which is renewed one year after it is originally granted. Full approval is then obtained and thereafter, there is a review of the school every five years. Each school is required to file an annual report for interim evaluation. For approval, the school is inspected and an evaluation is made of its proposed program. A nursing school must meet specified requirements for administration and organization, faculty, students (selection, entrance requirements, transfer), and facilities. The curriculum is standard and must follow the guidelines set forth by the Reard of Pegistration.

Cosmetology Schools

Cosmetology Schools must be licensed by the Roard of Registration of Hairdressers (Massachusetts). Licenses are renewed annually. To apply for a license, there must be an inspection by the Pepartment of Public Safety. A school must also furnish a bond of \$5,000 if the enrollment is less than 25 students, and \$10,000 if there are more than 25. The curriculum is standard and is designed so that the student can pass the examination administered by the Board of Pegistration.

Barber Schools

Like cosmetology schools, barber schools are licensed by the Board of Registration of Hairdressers (Massachusetts). Licenses are renewable every two years. An inspection of the premises is made and there must be 30 barber chairs and 30 sinks in the school. The Board of Registration also reviews financial statements for each of the schools.

Tractor Trailer Schools

Tractor trailer schools are licensed by the Massachusetts Registry of Motor Vehicles. A school must be started by a person who is an instructor -- he must have been an instructor for two years prior. The premises are then inspected by the Pegistry and by the Department of Public Safety. There must be an off-street training area. The license is renewed annually following an inspection. There is no requirement for posting a bond and the Pegistry does not concern itself with the finances of the school. Occasionally, they may request a copy of the articles of corporation.

Electrology Schools

Electrology schools are licensed by the Board of Registration of Electrologists in Massachusetts. Licenses are renewed every two years. All instruc-



tors in the school must be "licensed instructors", one of the two classifications of electrologists. There are strict requirements for facilities -there must be a certain number of sinks in relation to the number of students, there must be one machine per student, the machines must be FCC approved. The schools are visited frequently by member of the Board. There are curriculum requirements, as the graduates of the schools will take a standard state exam for licensure. The Board also requires the school to inform them of the student contract and to submit a copy of the school manual. Each school is required to post a bond -- \$500 for schools with less than 25 students; \$2,500 for schools with more than 25 students.

Schools of Dental Assisting

At present, schools of dental assisting must be accredited by the American Dental Association. There is no agency in the State which is required to grant them a license or approval. The exam which a dental assistant takes is national, not state. Probably before too long there will be a call for state licensing of dental assistants, at which time the state will want to license the programs.

Schools of X-Ray Technology

Like schools of dental assisting, schools of X-Ray Technology are accredited nationally by the American Board of Radiology. A student must pass a national exam after graduation in order to be registered as a radiologist.

Flight Schools

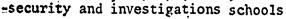
There are no state or federal requirements for licensing or approval of flight schools in Massachusetts. They are generally approved by the FAA, although this is not mandatory. Flight schools may also obtain approval of the Massachusetts Department of Education. Many flight schools desire approval by the Veteran's Administration, and in order to obtain this they must first he approved by the FAA and the Department of Education. Most flight schools do seek some sort of approval as this will help them to attract students.

Driving Schools

Schools of driver education must be approved by the Registry of Motor Vehicles. Like the tractor trailer schools, a driving school must be started hy someone who is a licensed instructor and has been so for two years prior. The premises are inspected by the Pegistry and by the Department of Public Safety. The license is renewed annually.

Not Included in Licensing Procedures

-other avocational schools (such as schools of dance, self improvement, self defense, charm language, etc.).





Degree-Granting Authority for Proprietary Schools

Proprietary schools may apply to the Board of Higher Education in Massachusetts (as of June 15, 1973) to obtain degree-granting authority. There are eight guidelines to be followed when making application:

(1) A school must have a Board of Trustees with a minimum of seven members. It must act according to a list of functions and responsibilities set forth by the Board of Higher Education.

(2) A high school degree or its equivalent must be a prerequisite for admission into the school seeking degree-granting authority.

- (3) Degree status, tuition charges, other charges and refund policy for proprietary institutions must be clearly stated in the publicity of the institution.
- (4) Clear and precise records of the financial status of the institution must be a matter of public record.
- (5) The status of course credits amassed and the records of graduates receiving transfer credits for those courses or records on jobs and wage rates of graduates must be a matter of public record.
- (6) The institution must furnish the Board of Higher Education with 300 copies of its annual report. (This is to assure public access to information on degree-granting proprietary institutions).
- (7) A proprietary institution may petition for any degree the Board of Higher Education has the authority to grant.
- (8) Requests for degree granting authority will be processed through the Board of Higher Education's usual degree-granting procedures. A Visiting Committee will be established to address itself to the above guidelines and criteria. The Committee would expect that an institution would provide services to students and academic programs at a level and quality comparable to similar non-profit institutions. Degree-granting authority will be reviewed at three-year intervals.



III.F. STUDENTS AND OPERATIONAL CHARACTERISTICS OF PROPRIETARY SCHOOLS

Data on students and operational characteristics of proprietary schools in Massachusetts will be gathered extensively in Stage II of this research effort. However, some general impressions will be presented here on the basis of a number of interviews with school directors and of responses to questionnaires used for the 1973 study of continuing education in Massachusetts: Strengthening the Alternative Postsecondary Education System: Continuing and Part-time Study in Massachusetts (George J. Nolfi and Valerie I. Nelson, University Consultants, Inc. 1973).

Student Characteristics

There appear to be two types of clienteles in proprietary institutions. First are the students clearly enrolled for job-related reasons. They are taking courses in proprietaries for job skills, either beginning or refresher courses. In this category are many types of students: young high school graduates, dropouts, housewives, returning veterans. They are likely to be lower, lower-middle or middle class in background. Some trade schools cater mainly to men; other schools, such as business and cosmetology, mainly to women.

A second but smaller group of students are those enrolled for recreational reasons. They are taking courses in art schools, cooking schools, language schools, and flight schools. These students are likely to be middle or upper-middle class in background.

Operational Characteristics

Although proprietary schools vary greatly in objectives, operations, and quality of training, the following general characteristics will apply to most schools:

- --a perception of two clients --the student and the businessman who will hire the graduate
- --set up in response to a need in the labor market for training in a specific skill. Three pre-conditions: students must want training, training and facilities must be reasonable in cost, and graduates must be placeable
- --specialization in a specific cluster of skills--schools feel more comfortable operating in one area alone
- --practical instruction, short and intensive modules
- --operating budget:

recruitment	25-30%
instruction	25-30%
administration	12-18%
facilities	12-15%
profit	0~10%



IV. POSTSCRIPT

THE CONTEMPORARY ROLE OF PROPRIETARY INSTITUTIONS IN VOCATIONAL EDUCATION IN MASSACHUSETTS*

This is an overview and summary of the Stage I report and of research issues being addressed in Stage II of this research project. The following sections are included:

Complex Policy Issues and the Need for Objective Research Description of Proprietary Schools The Inadequacy of Past Research to Meet Policy Needs What is Known and What is not Known about Proprietary Schools Policy Questions Addressed in Stage II

Complex Policy Issues and the Need for Objective Research

University Consultants, Inc., with funding from the Massachusetts Advisory Council on Education and Professor John Dunlop of the Harvard University Economics Department, has completed Stage I of a two-stage research effort into the role and activities of proprietary schools in the state of Massachusetts. The Stage I report is not intended to present final conclusions of research, but rather represents about on.-tenth of the total study effort. The objectives of Stage I were limited to produce a basic objective review document which brings together available data on the activities of proprietary and public schools in the State, reviews the literature and research to date, clarifies the several complex research and policy issues characteristic of this subject and specifies the precise research questions to be answered in the Stage II effort in 1974.

For many years, proprietary institutions in the State of Massachusetts have trained students in business, trade and technical, medical, cosmetology, and other fields, yet their role in education and training of youth and adults has not been researched nor recognized. As many as 270 proprietary and independent non-profit schools operate enrolling 37,000 students a year in vocational

* G. Nolfi, V. Nelson, and R. Freeman (University Consultants, Inc., 45 Hancock Street, Cambridge, Mass. 02139 (617) 491-5828, March 1974).



courses alone. Another 6,000 students enroll in correspondence schools (by comparison, the community colleges had a total enrollment of 42,134 full and part-time students in Fall, 1972).

Over the next several years the State of Massachusetts will need increasingly to clarify and define its policies toward proprietary schools: the 1202 Commissions to be set up this year require representation from proprietary schools; the Office of Manpower Affairs will make decisions about using funds under the new Comprehensive Employment and Training Act to support or not support students at proprietary schools (as in past programs); the proposed Massachusetts Open Learning Network will consider formal transfer and credit arrangements with non-degree-granting institutions for the competencies individuals develop in such settings; the Board of Higher Education will continue to consider program approval for degree-granting institutions which may duplicate offerings of proprietary schools; the Department of Higher Education will continue to implement licensing procedures for proprietary schools; and finally, long-term policies will be discussed to improve the interaction of education and the labor market.

The formulation of policies in these areas requires a greater understanding about proprietary schools than current research and theory can provide. Research and reporting into the role and scope of proprietary schools has been limited and piecemeal. All the recent studies deal with a handful of schools and students, yet the proprietary school sector in Massachusetts is large and extremely diverse. It is therefore essential that, before new legislation or policies are developed in the State, the role and activities of proprietary schools be assessed in depth and better understood.

Description of Proprietary Schools

"Proprietary" schools were first developed in business fields in the mid-nineteenth century and they have operated in a variety of fields since that time. They typically are small (50-500 students) organizations specializing in training of one particular skill or avocation. Courses are generally organized in short, intensive modules and the format is more practical than academic in orientation. Classes are run at many hours to be convenient to the working person, and at graduation vocational proprietary schools usually award certificates or diplomas. Few in Massachusetts grant degrees, although many offer A.A.-equivalent programs without the general education component and competencies gained by students are comparable. Since the reputation and hence the financial survival of the vocational proprietary schools depends on job placement of graduates, schools try to provide up-to-date training by maintaining close contact with selected employers in their fields and faculty are selected more for work experience than for academic background. There is great diversity in the quality of proprietary schools: there is research evidence that the more reputable ones offer worthwhile training programs, but others practice deceptive advertising, charge excessive fees, and have low job placement rates.1

For many years, proprietary schools have operated outside of the formal and highly visible educational structure of degree-granting public and private high schools, community and junior colleges, and colleges. Any student choosing a proprietary school did so on his own, since few guidance counsellors recommended proprietary schools, and except for some licensing requirements, educators and government officials had little contact with these schools. Proprietary schools and large public educational systems were content to leave each other alone since by and large they were not in direct competition. Proprietary schools often functioned in fields where public systems did not have programs or simply did a better job than the local system. For example, proprietary schools were the first to teach typing in the 1880's and computer programming and keypunch skills in the 1960's. The only restrictions on proprietary schools were licensing requirements in some states, having to do with financial soundness of the institution and not the quality of instruction. G.I. Bill and Vocational Rehabilitation benefits could go to students at proprietary schools, but there were no formal transfer arrangements into the public or private educational system.

Over the last decade, however, competition has become more direct as the community colleges and vocational/technical institutes have been developed to offer more extensive programs in vocational and avocational fields. The laissez-faire policy toward proprietary schools has been questioned. Educators and policy-makers are now concerned about what the proper role of proprietary schools should be in the overall education and training system in this country. Should proprietary schools be left alone as in the past, should they be better utilized by direct government support or contracting, or should the student receive financial aid which he can take to any proprietary, private or public school? How should the student as consumer be protected from deceptive business practices and finally, should proprietary schools be included in statewide and nationwide planning efforts?

Several trends have been clear over the last few years: In a number of states, proprietary schools may now apply for degree-granting authority. The national proprietary school accrediting associations have been asked to join the Federation of Regional Accrediting Associations along with the college and university associations. Students in accredited proprietary schools are now eligible for federal student aid funds. Many colleges are giving transfer students credit for prior work at proprietary schools. Pennsylvania and New York incorporate proprietary schools into open learning systems as community resources not to be duplicated by new public programs. At the same time, however, concern increases among policy-makers that proprietary schools, as well as public and non-profit schools, provide the education and training that they claim to offer. Increasingly, states are seeing the proprietary school sector in times of limited resources as an educational resource not to be unnecessarily duplicated by public programs but to be considered as part of the overall postsecondary resources in the state. The federally-mandated 1202 Commissions will aid this process.

The Inadequacy of Past Research to Meet Policy Needs

At a time when major policy issues have been and are being discussed, very little was known about the actual workings of proprietary schools. Estimates of numbers of schools and students are just that and no more; state departments of education do not even maintain comprehensive lists of vocational and avocational schools.

An assessment of the role of proprietary schools in education and training is not possible on the basis of research to date and thus recommendations for policy changes are often grounded in speculation and not fact. Those advocating greater participation of proprietary schools cite the quality of training in the accredited business and trade and technical schools while those wary of profitmaking in education cite FTC findings of deceptive practices.

One view would have it that proprietary schools, spurred by market competition, operate efficiently and innovatively to meet the changing and diverse training needs of students. As such, they provide a valuable service to a worker investing in his skills and to the economy in providing trained manpower. Public and non-public schools would, by contrast, be wasteful and unresponsive in their bureaucratic functioning.

Another view would have it that proprietary schools exist to a large extent by attracting naive and impressionable young people and by promising jobs they cannot possibly get. The owners reap profits from the high price, low quality programs, but students fail to achieve their goals.

What is Known and What is not Known about Proprietary Schools

A study by A. Harvey Belitsky, Private Vocational Schools and Their Students: Limited Objectives, Unlimited Opportunities recommends the flexibility of operation and organization of proprietary schools to meet the needs of disadvantaged students. Examples are cited of flexible admissions criteria, programs offered at night and in convenient locations, changes in curriculum to meet employer needs, and special adaptations of short-term, individualized courses to motivate the non-academic or disadvantaged student. However, the study was based on a limited number of schools.

-- A study by ICF, Inc., Proprietary Business Schools and Community Colleges:

Resource Allocation, Student Needs and Federal Policies found that wellestablished business schools compare well with public community colleges.
They make continuous changes in operation and instruction while community
colleges spread resources too thin to develop "sharply-focussed and effective"
curriculum. Proprietary students stated that they chose proprietary schools
over public programs for 1) their superior placement record, 2) job-specific
training, and 3) a shorter time to completion. Figures were cited for graduates of 100 accredited business and technical programs: 59% would enroll in
the school if they were facing the choice again, 81% are in training-related
IERICiobs and 70% are very satisfied or satisfied with their current jobs.

--A study by AIR, A Comparative Study of Proprietary and Non-Proprietary Vocational Training Programs found both proprietary and non-proprietary schools are effective in providing students with marketable skills.

Resulting recommendations are that both proprietary and non-proprietary schools he examined for evidence of benefits and costs of training before federal funds are allocated; "no institution should be discriminated against on the basis of ownership status." In addition, regulation of standards in advertising, recruiting, refunding, and other policies should be strict for both private and public schools.

--A study by Wellford Wilms, Profitmaking and Education⁵ finds that proprietary school students as compared to public school students are: more likely to be high school dropouts, from a general or vocational program rather than a college preparatory program in high school, of minority race, and have lower verbal skills. Socioeconomic backgrounds and motivation for job achievement are similar. In spite of differences in academic background and skills, students in proprietary and public programs expect the same émployment gains from training.

--David O'Neill (1970) found proprietary schools to be more cost-effective than in-house Navy training programs for electronic technicians and recommended greater Navy contracting to private schools.

--Sam Harris Associates (1973) found proprietary schools less cost-effective in MDTA programs than public schools, but attribute this to the fact that the public colleges and schools absorb much of the overhead costs of the programs while proprietary schools charge full cost including overhead.

--Richard Freeman (1973) found that the private rates of return from formal schooling and proprietary training are roughly equal; but, since the public contributes less support to proprietary schools or students, the rate of return to society is higher for proprietary school training than formal schooling.8

--The Boston Globe Spotlight Team (1974) finds some proprietary schools violate State laws with respect to advertising, refunds to students, licensing of salesmen, and approval of teachers. The Clobe investigation, however, only covers eight of the 183 proprietary resident vocational schools in the State and includes schools which have been suspected of bad business practices. The results found should not be extended to the other 175 schools not covered. Secondly, while unfair sales practices are found, they may not reflect on the quality of programs or graduation and placement rates.

-- The Stage I report of this research effort documents the wide variety and scope of proprietary schools in the State of Massachusetts. Program inventories for all public, non-profit, and proprietary postsecondary vocational programs have been developed which show overlap of certain public,



non-profit and proprietary programs, along with complementary specialization of proprietary schools in fields non covered by public schools. The development of Federal and State vocational education policies is delineated and issues raised for consideration.

The research to date calls attention to the activities of proprietary schools, cites characteristics of their behavior, and documents their legitimacy in certain fields of training in adding to a student's earning capacity. This research, however, only begins to address some of the fundamental questions about the operations of proprietary schools:

1) What is the role of proprietary schools in vocational and avocational training?

2) What is the nature of the process of proprietary training? Are there differences in training among types of schools -- are there only differences in scheduling as cited in several studies or are there more fundamental differences in training techniques?

3) How do proprietary schools operate as business enterprises?

4) What kind of person goes to a proprietary school, for what reasons, and does he benefit from the programs?

5) How do employers value proprietary school training? as compared to public or non-profit school training?

6) What is the policy context in which proprietary schools operate?

Policy Questions Addressed in Stage II

The increasing government support of and student demand for vocational education and training, a search in traditional higher education for new ways of educating students, and a concern for protecting the student as consumer call for a greater consideration of the role and activities of proprietary schools. Over the next few years State investments in vocational programs, support of students, licensing, planning and coordination policies and legislation will be developed with criteria of efficiency, responsiveness and equity. Public policy should encourage all institutions to provide vocational training in an efficient manner and with high quality. The goals of programs include job training in a specified curriculum, quality, job placement, general education, student attitude change, and others. Among these goals, State and individual spending should get its best return, whether among proprietary or public programs. Public policy should encourage institutions to be responsive to student interests and innovative in teaching techniques and curricula. Finally, public policy and support should be equitable in its distribution across students. Increasingly, policymakers will apply the same criteria, such as labor market success of graduates and competencies developed, to public, non-profit, and proprietary schools. The output of the particular program will be more important than its particular form of governance.

These policy criteria serve to define the kinds of questions addressed in this study. What do proprietary institutions do, in what subjects, with what kinds of students? In comparison, what do public and non-profit schools and colleges do? What happens to graduates of proprietary, public, and non-profit programs when they enter the labor market and over the long



term? What are the objectives and goals of proprietary, public and non-profit schools, how do they operate, allocate funds, etc.? How do proprietary, public and non-profit institutions interact and how well do they individually and together serve the interests and needs of students and employers? These questions will be answered by the analysis of data gathered from student, graduate, and institutional questionnaires and by intensive case studies and interviews with proprietary and public institutions.

FOOTNOTES

- 1. For general characteristics of proprietary schools, see:
 Belitsky, A. Harvey, Private Vocational Schools and Their Students
 (Schenkman Publishing Co., Cambridge, Mass., 1969)
- 2. Fulton, Richard A., "Proprietary Schools", Encyclopedia of Educational Research, 4th Edition, (MacMillan Company, New York, 1969), p. 1026.
- 3. Belitsky, op. cit.
- 4. Erickson, Richard W., Proprietary Business Schools and Community Colleges: Pesource Allocation, Student Needs, and Federal Policies (ICF Incorporated, Washington, D.C., June 10, 1972).
- 5. Wolman, Jean M., A Comparative Study of Proprietary and Non-Proprietary Vocational Training Programs, Volume I (Office of Program Planning and Evaluation, Washington, D.C., Nov., 1972).
- 6. Wilms, Wellford W., Profitmaking and Education (Center for Research and Development in Higher Education, University of California, Berkeley, California, July 27, 1973).
- 7. Sam Harris Associates, "A Comparative Study of MDTA Institutional Training in Community Colleges, Public Vocational Schools and Private Institutions", Washington, D.C., May 15, 1973.
- 8. Freeman, Richard B., Occupational Training in Proprietary Schools and Technical Institutes, (Harvard University, August 1973).
- 9. The Boston Globe Spotlight Team Report on Career Training Schools, March 25, 1974 thru April 3, 1974.